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# Tri-Party Agreement Milestone Summary

December 1992

Date Published  
January 1993

Prepared for the U.S. Department of Energy



**Westinghouse  
Hanford Company**

P.O. Box 1970  
Richland, Washington 99352

Hanford Operations and Engineering Contractor for the  
U.S. Department of Energy under Contract DE-AC06-87RL10930



Approved for Public Release

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DISCLM-1.CHP (1-91)

# PREFACE

The Tri-Party Agreement Milestone Summary Report is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) (Ecology et al. 1992) major milestone and its related interim milestones that remain active in the current 12-month period. Of the 218 planned, 213 interim milestones were completed by December 31, 1992.

The following Tri-Party Agreement major milestones have been completed; therefore, they are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92

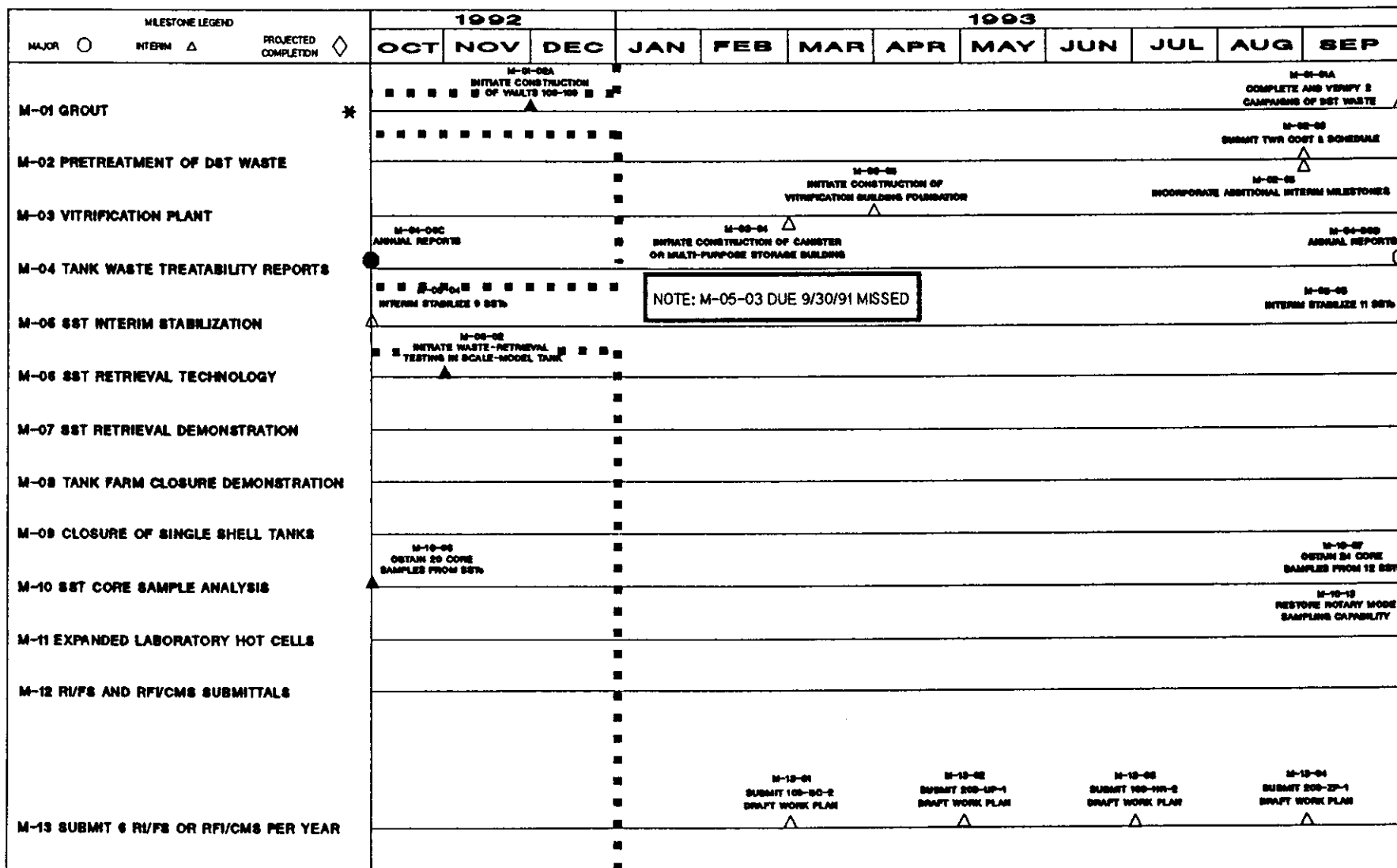
M-29-00

Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.

3/31/92

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## TPA MILESTONES

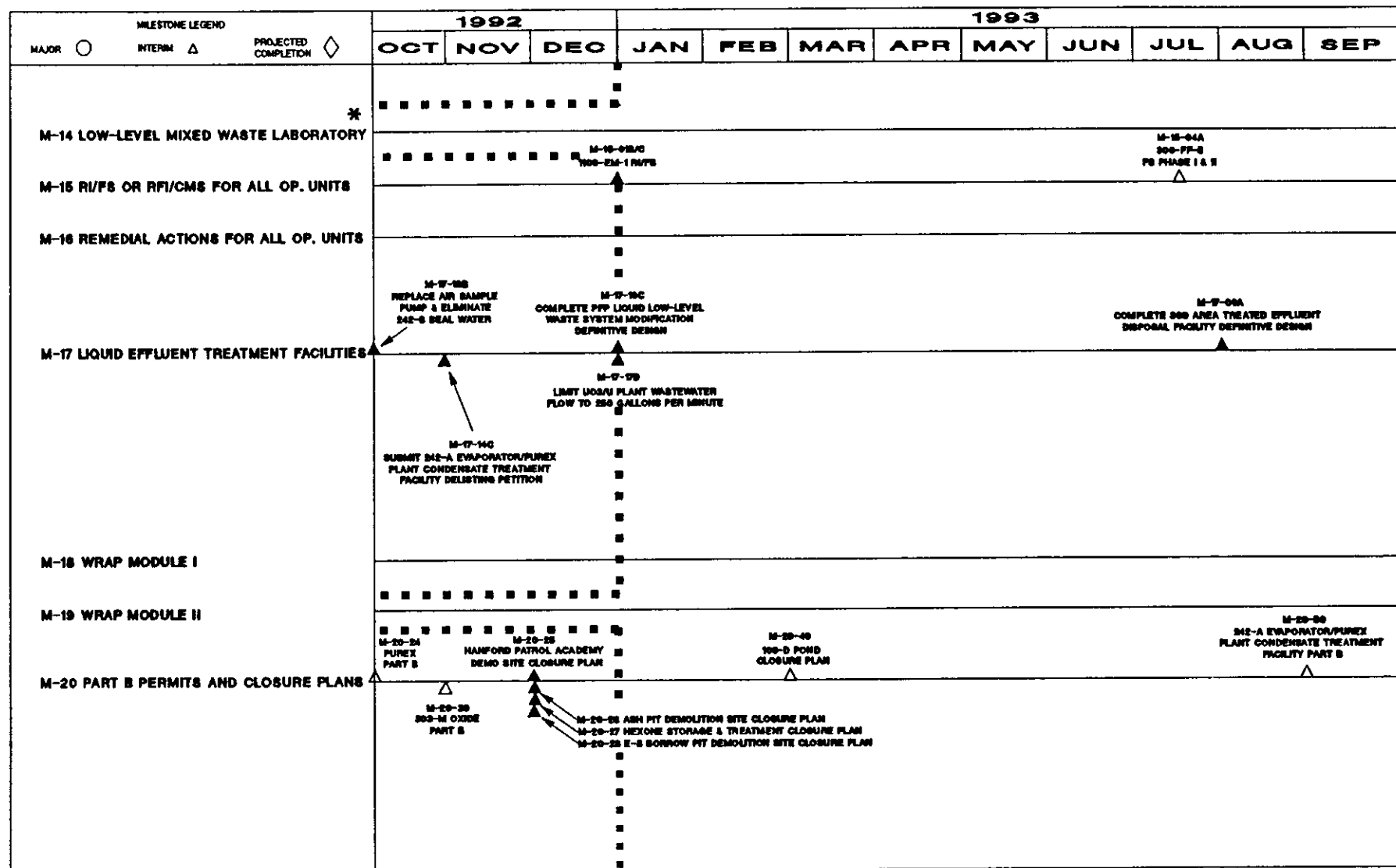


\* - IN DISPUTE RESOLUTION

← STATUS AS OF 1-1-93

## TPA MILESTONES

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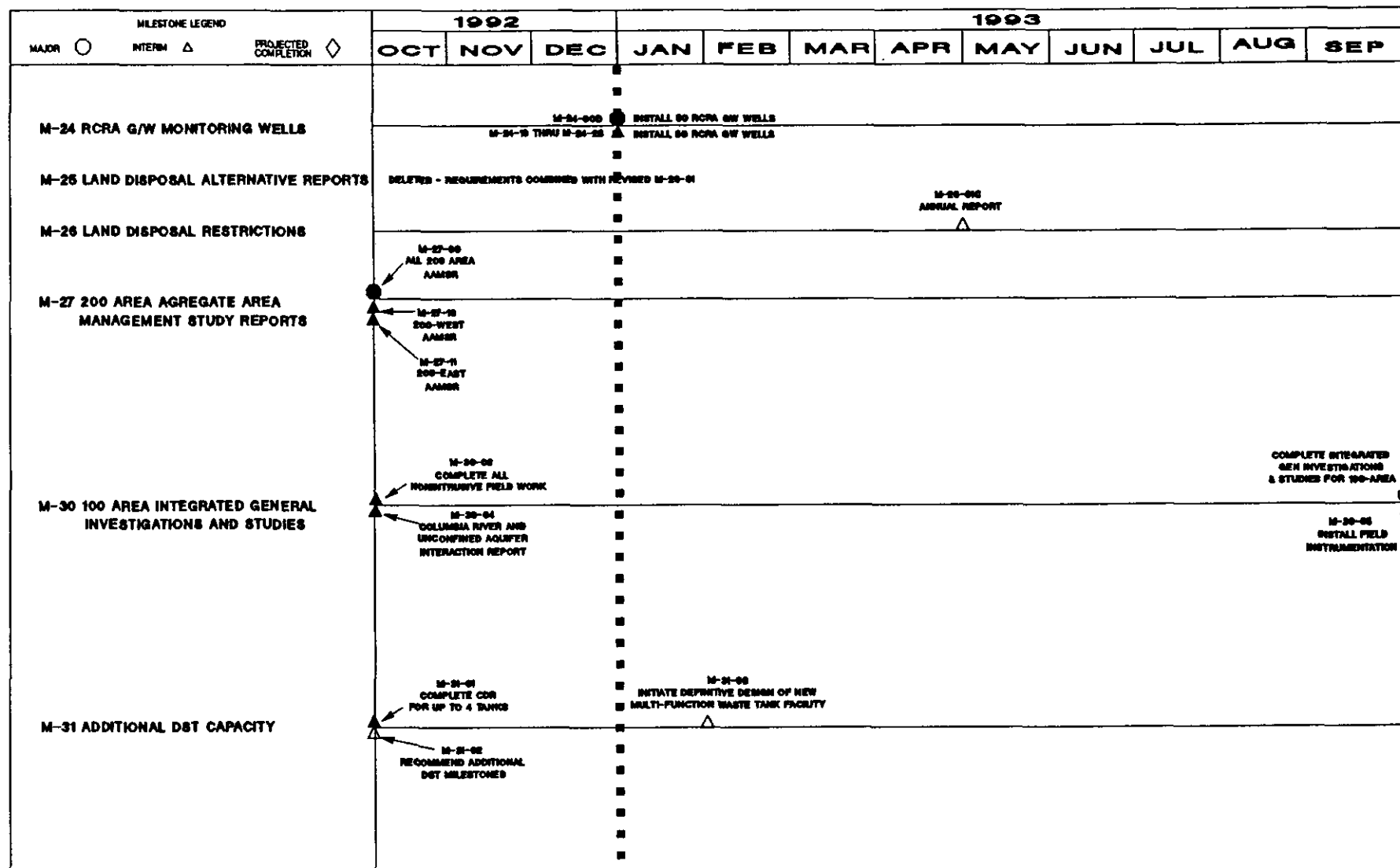
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← STATUS AS OF 1-1-93

## TPA MILESTONES

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← STATUS AS OF 1-1-93

# TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY DECEMBER 1992

(\$ in Millions)

<u>Major Milestone</u>	<u>FYTD Budget</u>	<u>FYTD Cost</u>	<u>Spending Variance</u>	<u>Annual Budget</u>
M-00*	4.1	4.4	-0.3	27.0
M-01	9.9	6.2	3.7	39.6
M-02	4.1	2.1	2.0	42.4
M-03*	30.5	22.5	8.0	139.6
M-04	0.0	0.0	0.0	0.2
M-05	1.3	0.6	0.7	7.9
M-06	0.0	0.0	0.0	0.0
M-07	0.8	0.7	0.1	4.8
M-08	0.7	0.3	0.4	3.3
M-09	1.7	1.4	0.3	3.0
M-10	5.6	4.9	0.7	20.4
M-11	2.6	2.4	0.2	11.9
M-12	0.3	0.0	0.3	0.6
M-13	0.4	0.1	0.3	1.6
M-14	1.3	2.8	-1.5	10.4
M-15*	17.2	14.3	2.9	83.8
M-16	2.5	1.9	0.6	15.6
M-17*	8.3	10.7	-2.4	100.4
M-18	2.2	2.7	-0.5	6.6
M-19	1.0	0.9	0.1	3.1
M-20*	2.3	1.4	0.9	9.5
M-24	0.5	0.8	-0.3	2.3
M-26	0.0	0.0	0.0	0.2
M-30	0.7	0.7	0.0	3.4
M-31	2.1	1.2	0.9	4.0
<b>Total</b>	<b><u>100.1</u></b>	<b><u>83.0</u></b>	<b><u>17.1</u></b>	<b><u>539.1</u></b>

\* Includes budget and cost from other contractors. All other milestones are Westinghouse Hanford Company (WHC) funded only.



## LIST OF TERMS

AAMSR	aggregate area management study reports
BACT	best available commercial technology
BAT/AKART	best available technology/all known, available, and reasonable methods of prevention, control, and treatment
CAA	Clean Air Act
CY	calendar year
DST	double-shell tank
DWPF	Defense Waste Processing Facility
Ecology	Washington State Department of Ecology
EIS	environmental impact statement
EPA	U.S. Environmental Protection Agency
ERA	expedited response action
FI/CMS	Facility Investigation/Corrective Measures Study
FY	fiscal year
GAO	General Accounting Office
GTF	Grout Treatment Facility
HLW	high-level waste
HQ	U.S. Department of Energy, Headquarters
HSBRAM	Hanford Site baseline risk assessment methodology
HWVP	Hanford Waste Vitrification Plant
NEPA	National Environmental Policy Act
NOI	notice of intent
NRC	U.S. Nuclear Regulatory Commission
OU	operable unit
QRA	qualitative risk assessment
RCRA	Resource Conservation and Recovery Act
RFP	request for proposal
RH-TRU	remote handled transuranic
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Field Office
ROD	record of decision
SEC	Senior Executive Council
SEIS	supplemental environmental impact statement
SST	single-shell tank
TBD	to be determined
TOE	total operating efficiency
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TRU	transuranic
TSD	treatment, storage, and disposal
TWR	tank waste remediation
TWRS	tank waste remediation system
WHC	Westinghouse Hanford Company
WRAP	waste receiving and processing
WSCF	Waste Sampling and Characterization Facility

**MAJOR MILESTONE: M-01-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: G. H. Sanders

MANAGER: J. L. Epstein

BASELINE DATE: December 1996

PROJECTED DATE: TBD (to be determined)

**DESCRIPTION:**

Complete 14 grout campaigns.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED*
M-01-01A	Complete and verify two campaigns of double-shell tank waste (DST) (this includes one campaign of phosphate-sulfate waste).	9/93	10/94

\*Projected date reflects Tri-Party Agreement change request M-01-92-01A.

**ACCOMPLISHMENTS**

- Completed construction of vaults 102-105.
- Completed DST waste transfer of 241-AN-106 to Grout Feed Tank 241-AP-102.
- Presented white paper results to Ecology and EPA describing and reviewing issues for Grout Treatment Facility (GTF) compliance at December Unit Managers Meeting.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue preparation of Draft *Grout Technology Plan*.
- Continue modeling activities for base and sensitivity cases using PORFLO software. Variations in hydraulic properties of grout and the barriers have been modeled as well as possible changes in hydraulic properties associated with various sizes of cracks in the asphalt cocoon.
- Proceed with the evaluation of estimated toxic component exposure to support a Toxic Air Permit application to Ecology.
- Continue development of resource-loaded integrated schedules.
- Continue work on the *Double-Shell Tank Vault Closure Plan*, which includes a section addressing the impacts of gas generation and mitigation.

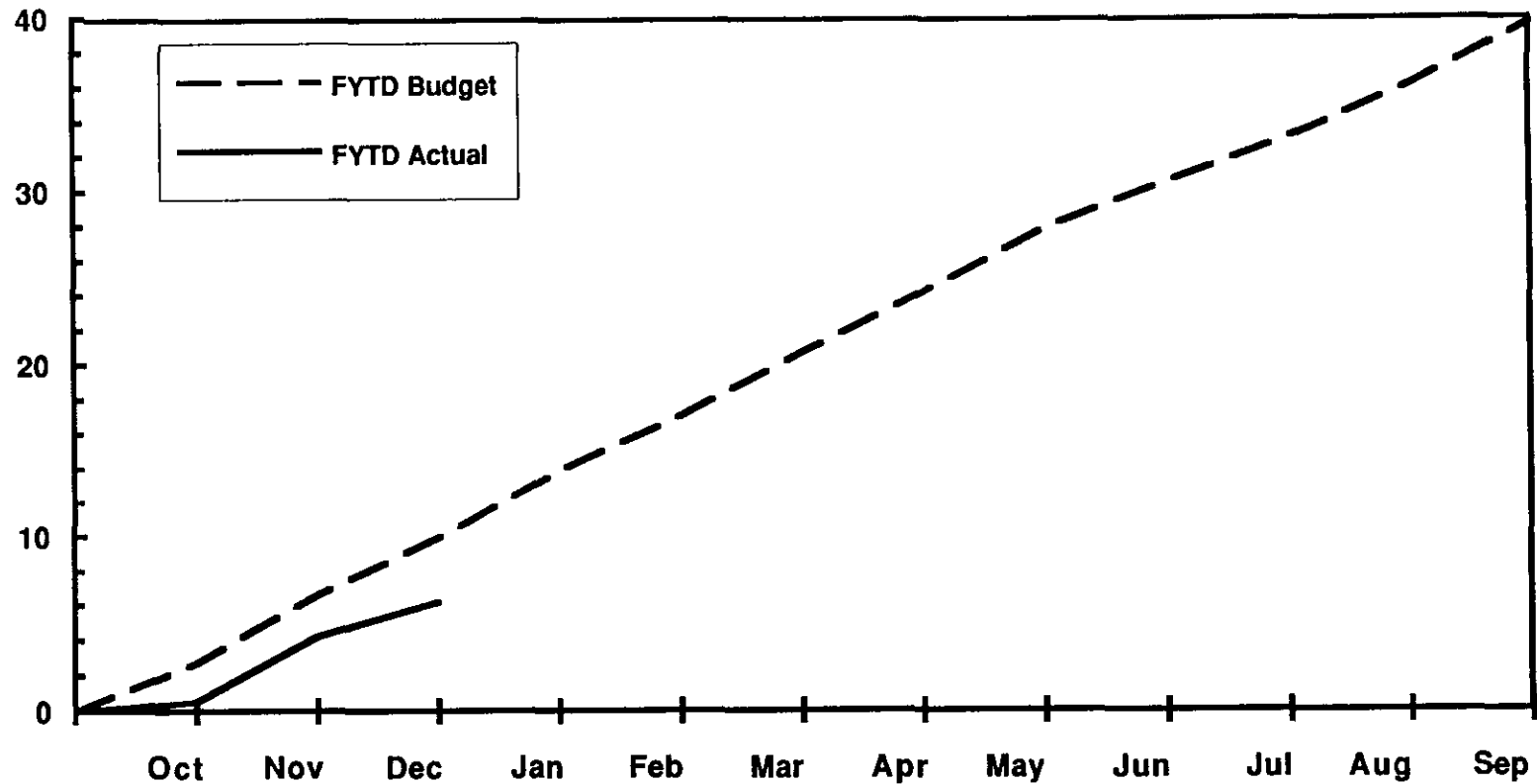
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# MILESTONE STATUS/PROBLEMS/ISSUES

- Reworking the Performance Assessment (U.S. Department of Energy, Headquarters [HQ] Peer Review Panel Comments/Recommendations) has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying GTF Tri-Party Agreement milestones. (Reference change request M-01-92-01A.)
- Heat of hydration and the time necessary to pour a grout campaign to ensure a "good" grout may impact the timely completion of grout milestones.
- The U.S. Nuclear Regulatory Commission (NRC) delay in reaching a decision on the Washington and Oregon States' petition for high-level waste (HLW) is creating program planning uncertainties.
- Starting up the GTF and initiating grout vault 102 filling to meet the milestone M-01-01A schedule (complete and verify two campaigns of DST waste by 1993) is highly unlikely, as documented in change request M-01-92-01A.

# **MILESTONE M-01-00** **FY 1993**

\$ Millions



FYTD Budget

Oct

Nov

Dec

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

FYTD Actual

0.5

4.2

6.2

Spending Var

2.2

2.4

3.7

Variance Explanation: See attached.

## **MILESTONE M-01-00 FY 1993**

### **Variance Explanation:**

Delays in hiring operations/maintenance staff and contract support for technical training packages, procedure development, and facility upgrade work packages; delay in placing requisition in support of grout quality verification, late costs from PNL in anticipation of PNL becoming direct funded.

Staff planning is being re-evaluated pending head count ceiling negotiations, contracts for engineering support have been initiated, and Kaiser work orders have been prepared to supplement manpower shortfall.

Increase in annual budget from November 1992 report results from completion of planning for several pieces of FY 1993 funded capital equipment.

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**MAJOR MILESTONE: M-02-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

**DESCRIPTION:**

Initiate pretreatment of DST waste.

DST waste pretreatment is required before disposal of high-activity tank wastes. Pretreatment supports the removal, treatment, and final disposal of wastes subject to land disposal restrictions stored in DSTs. Removal of the wastes from the DSTs and disposal in grout or glass will allow DST space to be made available for single-shell tank (SST) waste.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-02-03	Submit tank waste remediation system baseline scope, cost, and schedule.	8/31/93	8/31/93
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	8/31/93

**ACCOMPLISHMENTS**

- The *Initial Pretreatment Module Engineering Study* was transmitted to Ecology at the end of December. This satisfies target milestone M-02-00-T02.
- Held unit managers meeting with Ecology to provide update of the ongoing work in the pretreatment area. The Ecology Unit Manager was briefed on delays to target milestones M-02-00-T03 and M-02-00-T07. Change requests will be developed.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Complete development of plans and resource-loaded schedules for waste retrieval and pretreatment, as part of tank waste remediation system (TWRS) rebaselining.
- Prepare a retrieval program plan and technology development plans for retrieval and pretreatment.
- Complete a study to establish the near-term DST-SST retrieval sequence in support of pretreatment of tank wastes.

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- Complete an engineering study on waste pretreatment feed optimization (blending).

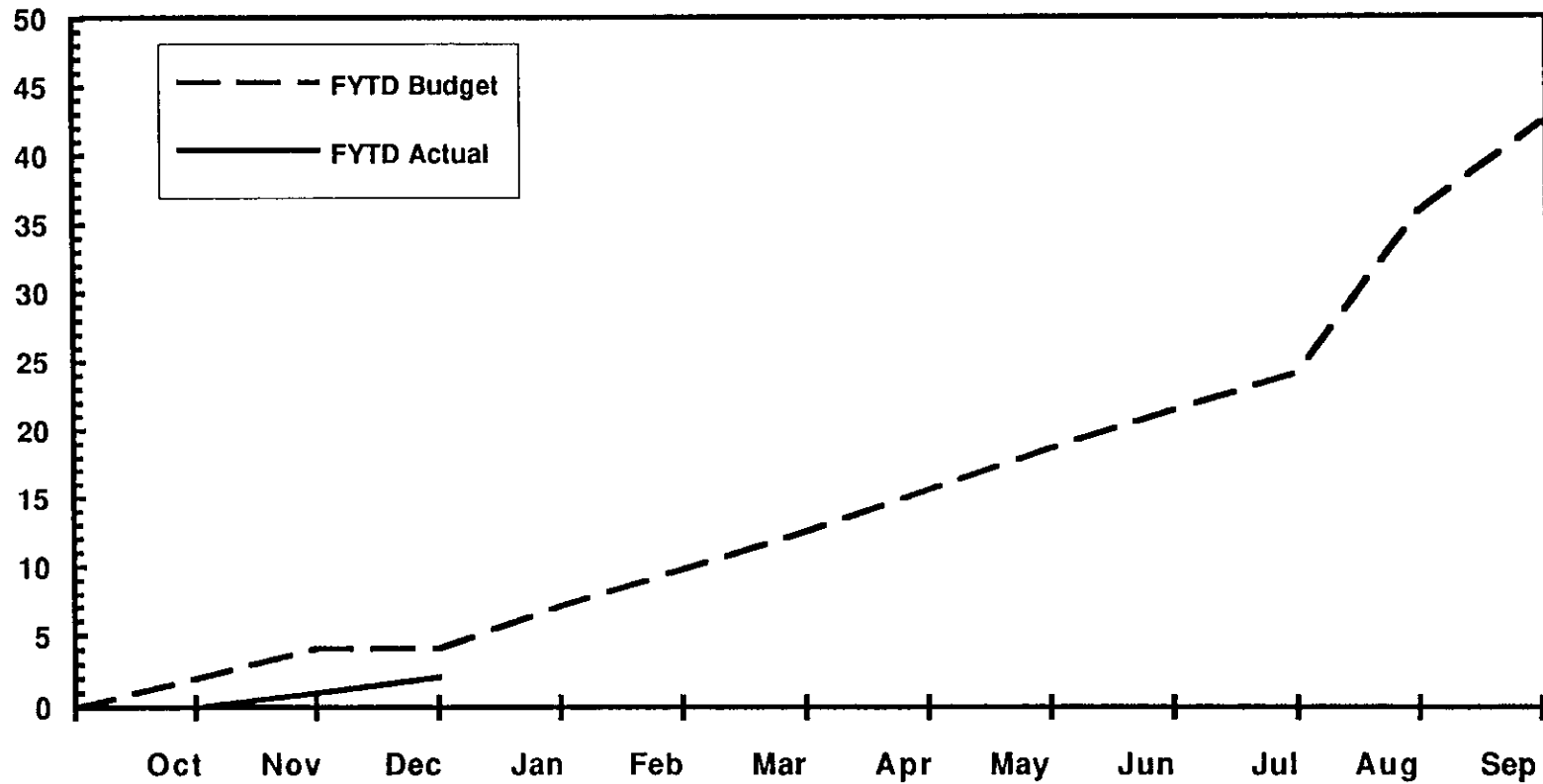
#### **MILESTONE STATUS/PROBLEMS/ISSUES**

- Target milestone M-02-00-T03, "Publish summary of NCAW TRUEX Laboratory development work," is 3 months behind schedule. The study is expected to be completed in March 1993.
- Reanalysis of milestone M-02-00-T07, "Initiate settling tests for NCAW in-tank solids washing," shows this work can be delayed without impacting pretreatment work. Negotiations with Ecology have begun to allow a year delay of this milestone.

9312967952

# **MILESTONE M-02-00** FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	2.0	4.1	4.1	7.1	9.8	12.5	15.6	18.7	21.5	24.2	36.0	42.4
FYTD Actual	0.0	1.0	2.1									
Spending Var	2.0	3.1	2.0									

Variance Explanation: See attached



## **MILESTONE M-02-00 FY 1993**

### **Variance Explanation:**

Various schedule delays have resulted in late costs from Kaiser, and smaller than planned design team labor on tank 101-AZ retrieval. In addition, costs have not been passed from PNL to WHC due to on-going negotiations for direct funding of PNL work scope.

The spending variance will be reduced by the completion of negotiations with PNL regarding direct funded effort, issuance of a letter of instruction to Kaiser, and increased emphasis on acquiring staff, either contracted or in-house.

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**MAJOR MILESTONE: M-03-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

**DESCRIPTION:**

Initiate Hanford Waste Vitrification Plant (HWVP) Operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-03-04	Initiate construction of the Canister Storage Building or multipurpose storage complex.	2/93	2/93
M-03-05	Initiate construction of the Vitrification Building foundation.	3/93	3/93

**ACCOMPLISHMENTS**

- The Washington State Department of Health and Ecology review of the construction permit application (Clean Air Act [CAA]) is under way. The estimated close date is January 11, 1993.
- Site preparation in support of initiation of construction on the Vitrification Building foundation (3/93) and the Canister Storage Building (2/93) is continuing.
- Detailed Design is continuing (51% complete).

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Resolve HQ (EM-23) PSAR review comments. The WHC draft response is due to RL January 11, 1993.
- Start excavation for the Canister Storage Building (2/93) and Vitrification Building (3/93).

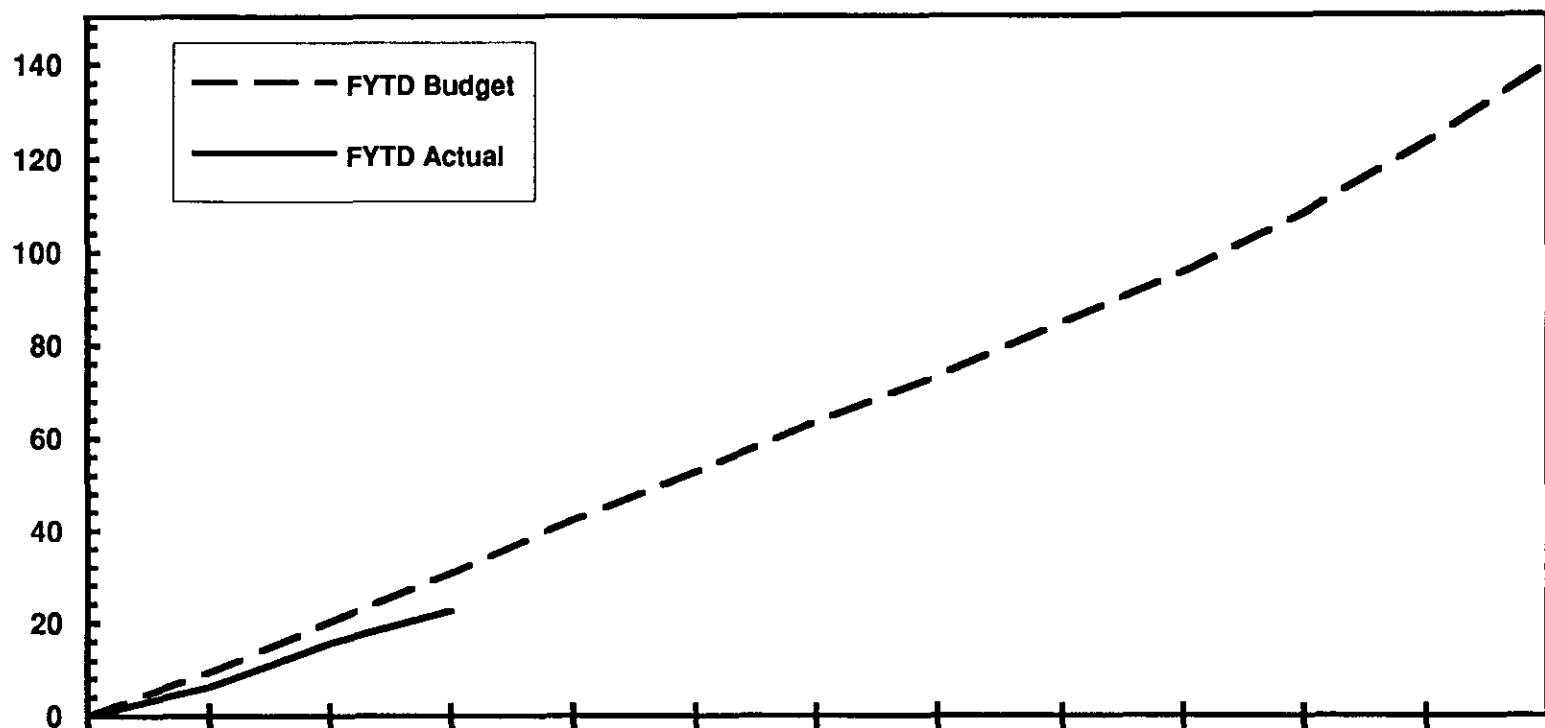
**MILESTONE STATUS/PROBLEMS/ISSUES**

- TWRS program rebaselining including uncertainties associated with pretreated feed for the HWVP Project is undergoing evaluation. Completion is planned for March 1993.

- Rescoping of the Multi-Function Waste Tank Facility project could necessitate incorporating lag storage tank capability within the HWVP.
- Key Decision 3B authorizing construction of the Canister Storage Building was issued by the Assistant Secretary for Environmental Restoration and Waste Management on December 17, 1992. Authorization to solicit bids and award a contract for construction of the Vitrification Building has not been received from RL.
- Plant operating efficiency may be impacted by an overcrowded laydown area. Several improvements being examined:
  - Expansion of the Shipping and Receiving Building at the north end of the Vitrification Building to provide additional equipment laydown space.
  - Reduced equipment storage space requirements via use of "universal" handling equipment.
  - Total operating efficiency (TOE) assessment study to predict equipment failure frequency and project space requirements.
- Handling and disposal of solid waste generated within the Vitrification Building is being re-evaluated through several activities:
  - Study being done to examine a TWRS solid waste handling facility.
  - Status report due by mid-January.
  - Technical exchange meeting scheduled for January at the Defense Waste Processing Facility (DWPF).

# **MILESTONE M-03-00** FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	9.3	20.2	30.5	42.4	52.7	63.4	73.3	84.7	95.4	108.0	123.2	139.6
FYTD Actual	6.2	15.8	22.5									
Spending Var	3.1	4.4	8.0									

Variance Explanation: Majority of the underspent condition is due to Fluor understaffing. Fluor will revise their budget to conform to FY 1993 funding guidance.

**MAJOR MILESTONE: M-04-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

**DOE DIRECTOR:** L. Erickson

**MANAGER:** W. C. Miller

**BASELINE DATE:** September 30, 1992

**PROJECTED DATE:** September 30, 1992

**DESCRIPTION:**

Provide annual reports of tank waste treatability studies.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

**ACCOMPLISHMENTS**

- No action at this time.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- None.

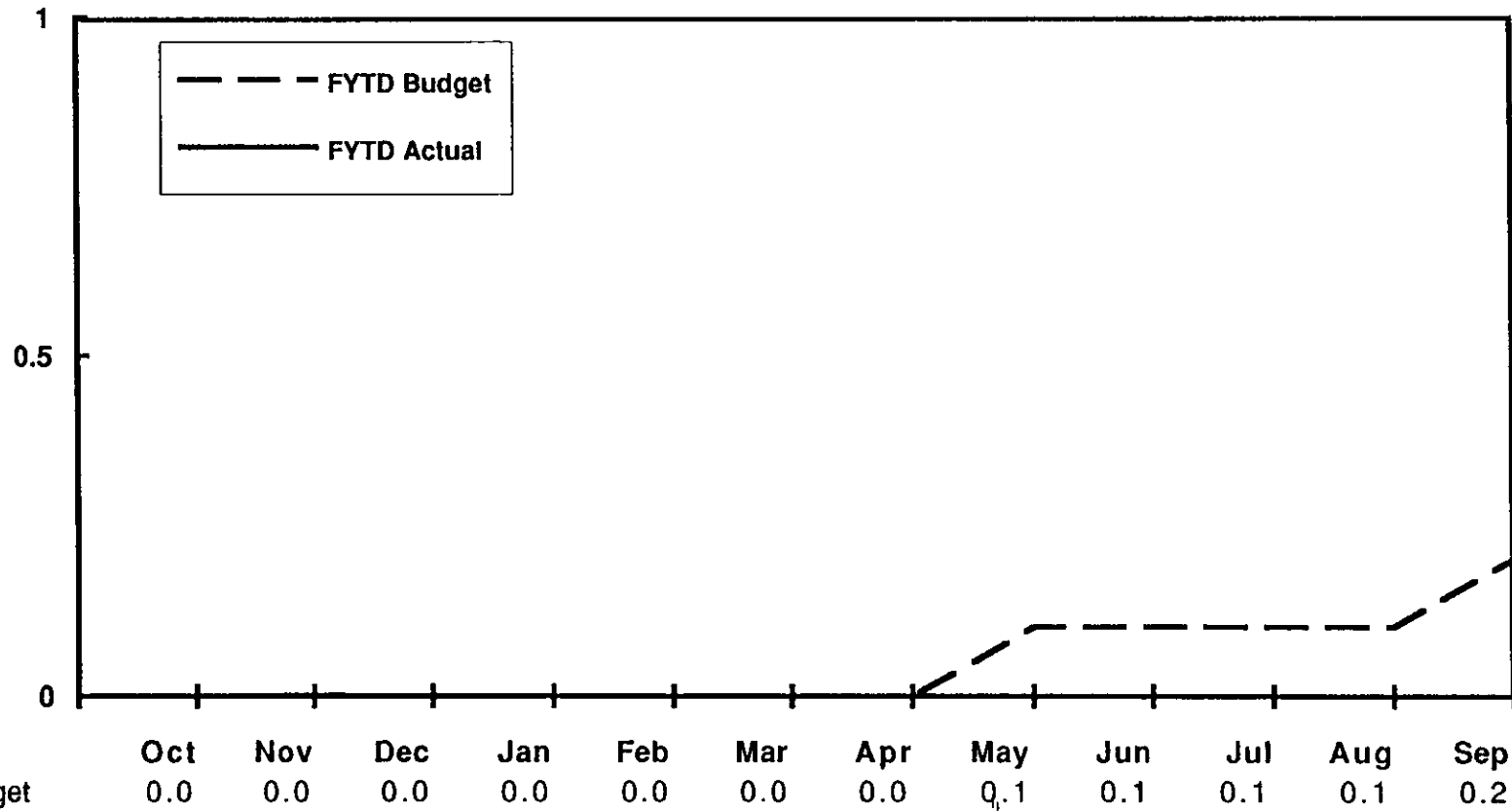
**MILESTONE STATUS/PROBLEMS/ISSUES**

- None.

# MILESTONE M-04-00

FY 1993

\$ Millions



FYTD Budget  
FYTD Actual  
Spending Var

Note: FYTD cost is \$500

**MAJOR MILESTONE: M-05-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

**DESCRIPTION:**

Complete SST interim stabilization.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-05-03	Interim stabilize an additional 4 SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional 9 SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD

**ACCOMPLISHMENTS**

- Reached an agreement in principle between the three parties on changes to this milestone that are required to respond to Ecology's proposed change request on assumed leaking tank 241-T-101, noted in this report last month. Several new milestones were agreed upon, including the start of pumping of tank 241-T-101 by March 15, 1993. RL has approved this change request and forwarded it to Ecology and EPA for their signatures before it is implemented.
- A proposed milestone in the tank 241-T-101 Tri-Party Agreement change control form M-05-92-05 requires the installation of a replacement surface level measuring instrument by January 1993. The replacement device was installed and verified to be operational December 18, 1992.
- Continued progress for preparing to pump assumed leaking tank 241-T-101. Safety evaluations for submersible pumping of the tank are in review at RL and HQ. The criticality justification for continued operation to allow pumping the tank has been revised to incorporate HQ comments.
- Completed proposed Tri-Party Agreement target milestone M-05-13-T4, "Provide to EPA and Ecology a plan for further improvements in gross gamma probe," on schedule. (Refer to Tri-Party Agreement change control form M-05-92-02).
- Provided a revised contingency plan for responding should a leak occur from tank 241-C-106, in accordance with proposed Tri-Party Agreement interim milestone M-05-11. (Refer to Tri-Party Agreement Change Control Form M-05-92-02.)

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## PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Prepare for and initiate the pumping of assumed leaking tank 241-T-101.
- Meet with regulators and develop a new Tri-Party Agreement change package for fiscal year (FY) 1992 and beyond nonwatchlist tank stabilizations. A recommended change control package is in review at RL.
- Complete proposed Tri-Party Agreement target milestone M-05-13-T1, "Initiate monthly psychrometric measurements at 241-C-105 and 241-C-106, commencing fiscal year 1993, to be taken while the exhausters are operating." (Refer to Tri-Party Agreement change control form M-05-92-02).
- Provide revised data sheets and administrative procedures relevant to monitoring SST 241-T-101 liquid level detection instruments, in accordance with proposed Tri-Party Agreement interim milestone M-05-18A. (Refer to Tri-Party Agreement change control form M-05-92-05.)
- Provide revised procedures to accomplish controlling and tracking discrepancy reports generated to document adverse trends or data anomalies in the Hanford Tank Farm Operations in accordance with proposed Tri-Party Agreement interim milestone M-05-18B. (Refer to Tri-Party Agreement change control form M-05-92-05.)

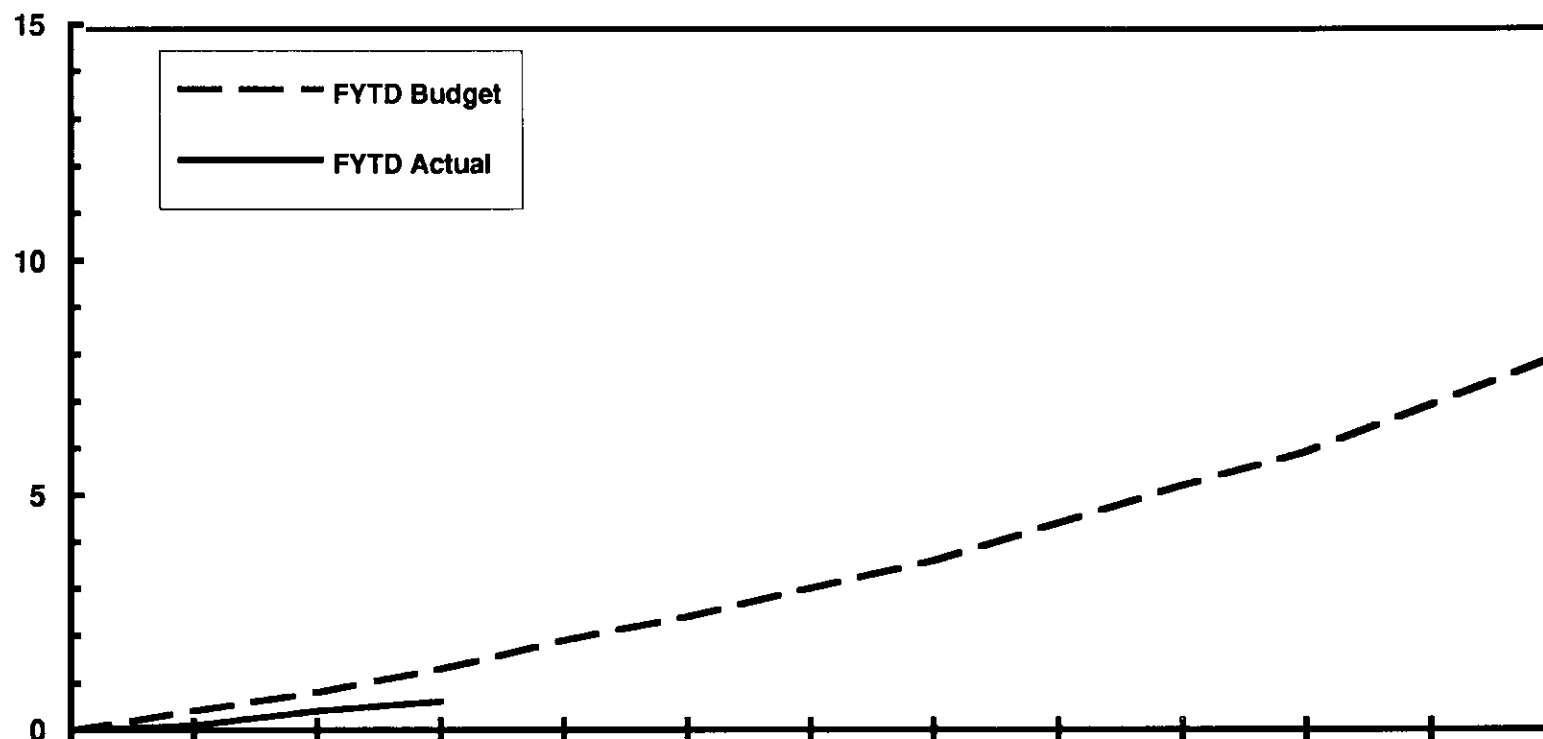
## MILESTONE STATUS/PROBLEMS/ISSUES

- In September 1992, tank 241-T-101 was declared an assumed leaker, and steps are under way to remove the drainable liquid to a minimum level that will cease discharging waste to the surrounding soils. Engineering and safety reviews have been conducted, and systems are being put into place to commence the drainable liquid removal as quickly as it is safe and prudent to do so.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. For personnel safety reasons, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200-areas' tank farms were halted as a result of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a proposed Tri-Party Agreement change request.
- A safety question was raised regarding the hazards associated with removing liquid from SSTs and the resultant drying of the wastes, thus potentially causing increases in tank content temperatures. Analyses and studies continue on this question.



# **MILESTONE M-05-00** **FY 1993**

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.4	0.8	1.3	1.9	2.4	3.0	3.6	4.4	5.2	5.9	6.9	7.9
FYTD Actual	0.1	0.4	0.6									
Spending Var	0.3	0.4	0.7									

Variance Explanation: Planned FY 1993 workscope is being delayed due to SST 241-T-101 emergency actions. These activities have deferred resources from stabilization and isolation (S&I) workscope to prepare 241-T-101 for emergency pumping which is scheduled to be completed in June 1993. Alternative plans are being pursued to enlist additional resources (KEH) to support SST S&I workscope.

**MAJOR MILESTONE: M-06-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

**DESCRIPTION:**

Develop SST waste retrieval technology and complete scale-model testing.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- No significant accomplishments in this reporting period.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue robotic test-bed testing and development to define prototype retrieval system performance requirements. Upgrades to the robotics system and test-bed will continue toward meeting the major milestone. These upgrades will include enhancement of robotic test-bed, simplified controls, and realistic dislodging and conveyance equipment.
- Experimentally optimize retrieval rates using computer modeling. The air lift conveyance system limits will be defined.
- Continue refining and development of tools and equipment to retrieve the wastes from tanks.
- Discuss with the regulators the major milestone completion definition plan.

**MILESTONE STATUS/PROBLEMS/ISSUES**

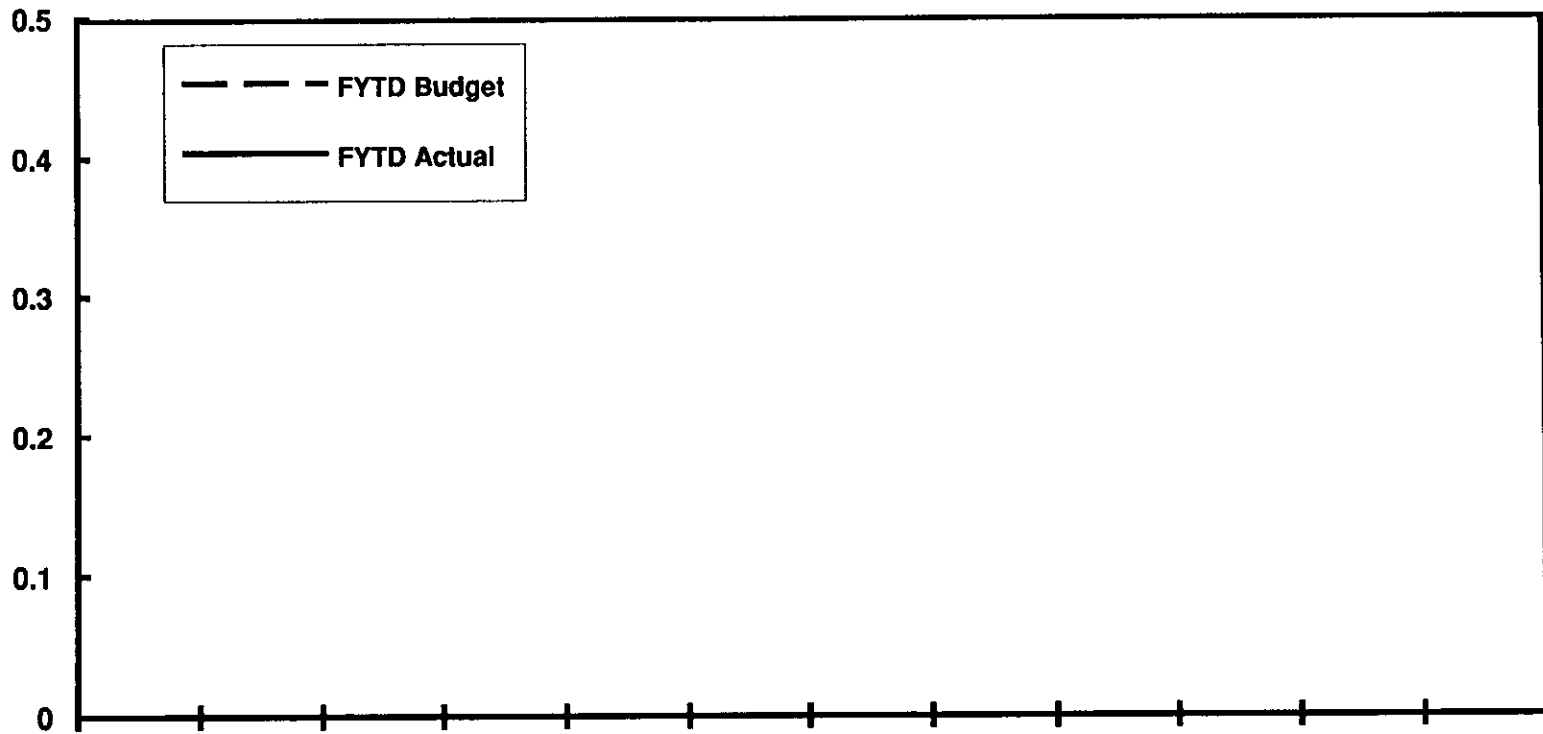
- This milestone is on schedule.

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**MILESTONE M-06-00**

FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FYTD Actual	0.0	0.0	0.0									
Spending Var	0.0	0.0	0.0									

Note: Actual cost FYTD are \$8,800.

MAJOR MILESTONE: M-07-00  
 STATUS FOR END OF MONTH: DECEMBER 1992

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

**DESCRIPTION:**

Initiate full-scale demonstration of waste retrieval technology.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-07-01	Submit SST selection criteria retrieval options and recommend tank selection to Ecology for concurrence.	10/93	01/93
M-07-02	Ecology concurrence/non-concurrence of SST selection criteria, retrieval options, and tank selection.	12/93	03/93

**ACCOMPLISHMENTS**

- Submitted the revised and updated plan on SST selection criteria and retrieval options leading to milestone M-07-01 for final review before delivery of the document to the regulators. Milestone completion is scheduled for mid-January 1993.
- Continued studies on the potential application of subsurface barriers to restrict the flow of waste that may leak from a tank during retrieval activities. These studies include participation by the regulators.
- Conducted a systems engineering study on various barrier systems December 15 to 17 for the retrieval program. Through a parametric scoring system, three options were selected for further study: circulating air barrier, cone grouting, and encapsulation.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Submit the tank selection criteria required by milestone M-07-01. Ecology then has 2 months to provide comments to the criteria and to concur with the recommended tank (M-07-02).
- Develop a detailed plan for M-07-00 achievement, integrated with M-06-00 and the underground storage tank integrated demonstration activities.

Propose revisions to the M-07 interim milestones are based on the detailed schedules.

- Commence environmental and regulatory compliance documentation as required by RCRA, CAA, and the National Environmental Policy Act (NEPA).
- Complete preliminary analyses on potential leaks from 241-C-106 during sluicing retrieval of the waste. Review the results of this work with regulators.
- Obtain regulator concurrence on sluicing as an acceptable method for tank waste retrieval.

#### MILESTONE STATUS/PROBLEMS/ISSUES

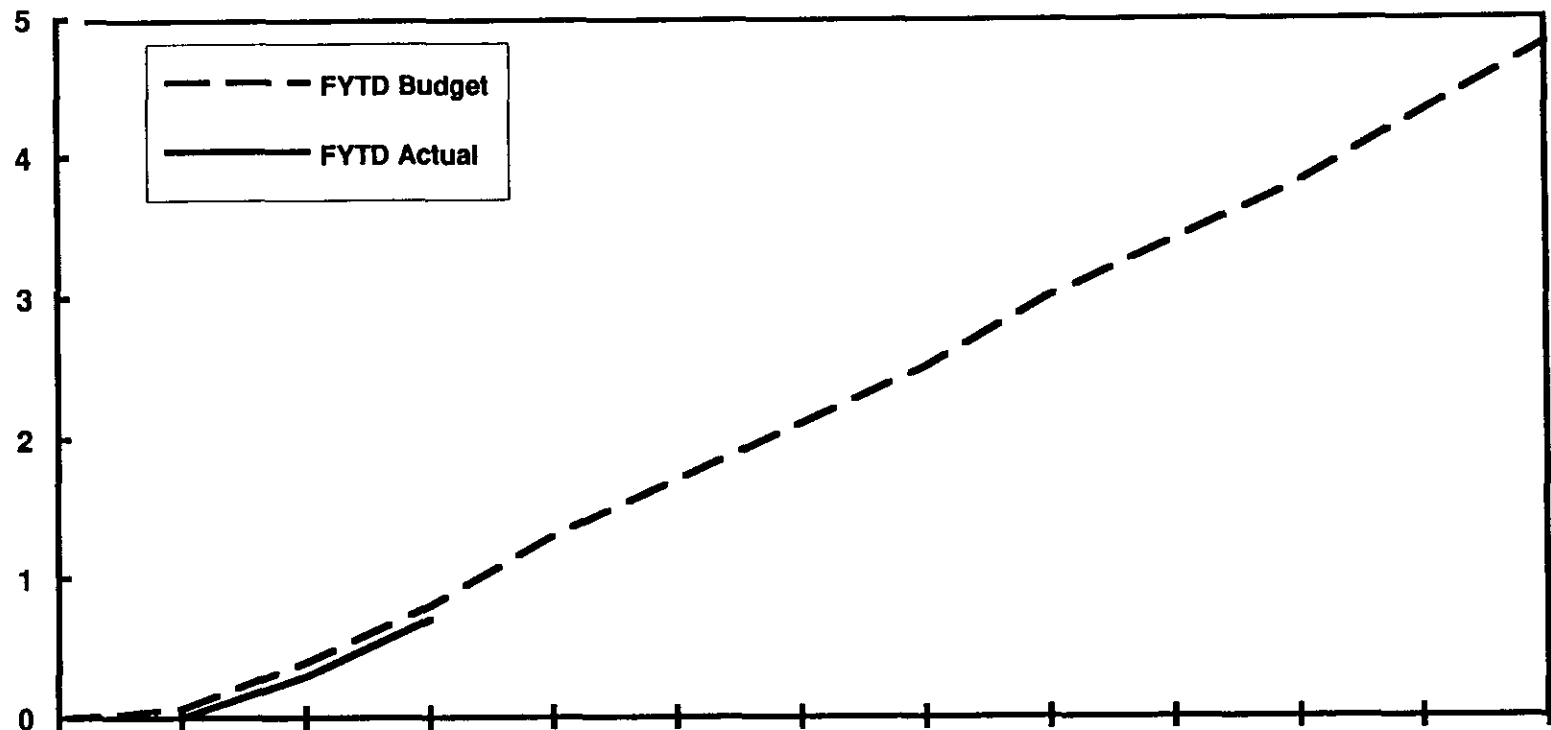
- The impacts of performing NEPA analyses (EA or EIS) are being studied. Preliminary assessments indicate that NEPA could pose substantial schedule risk to this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will be initiated with sluicing technology. Significant development work is required before deployment of additional retrieval technologies. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95% waste retrieval criteria for the M-07 demonstration.

If sluicing is not accepted for the M-07 retrieval demonstration, this milestone may require a Tri-Party Agreement change request because of a lack of available commercial technology, multiyear development efforts, and procurement lead time restrictions.

- The preliminary studies on subsurface barriers (see bullet under "Accomplishments") indicates this technology to be in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone can not be met as scheduled.

# **MILESTONE M-07-00** FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.1	0.4	0.8	1.3	1.7	2.1	2.5	3.0	3.4	3.8	4.3	4.8
FYTD Actual	0.0	0.3	0.7									
Spending Var	0.1	0.1	0.1									

Variance Explanation: The spending variance results from late receipt of a computer order, a weather delay in pump pit evaluation, and a delay in SAR work.

**MAJOR MILESTONE: M-08-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

**DESCRIPTION:**

Initiate full-scale tank farm closure demonstration project.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- No major accomplishments in this reporting period.

**PLANNED ACTIONS FOR THE NEXT 6 MONTHS**

- Pursuit of subsurface barriers as part of retrieval of wastes from tanks as single tanks and as tank farms.

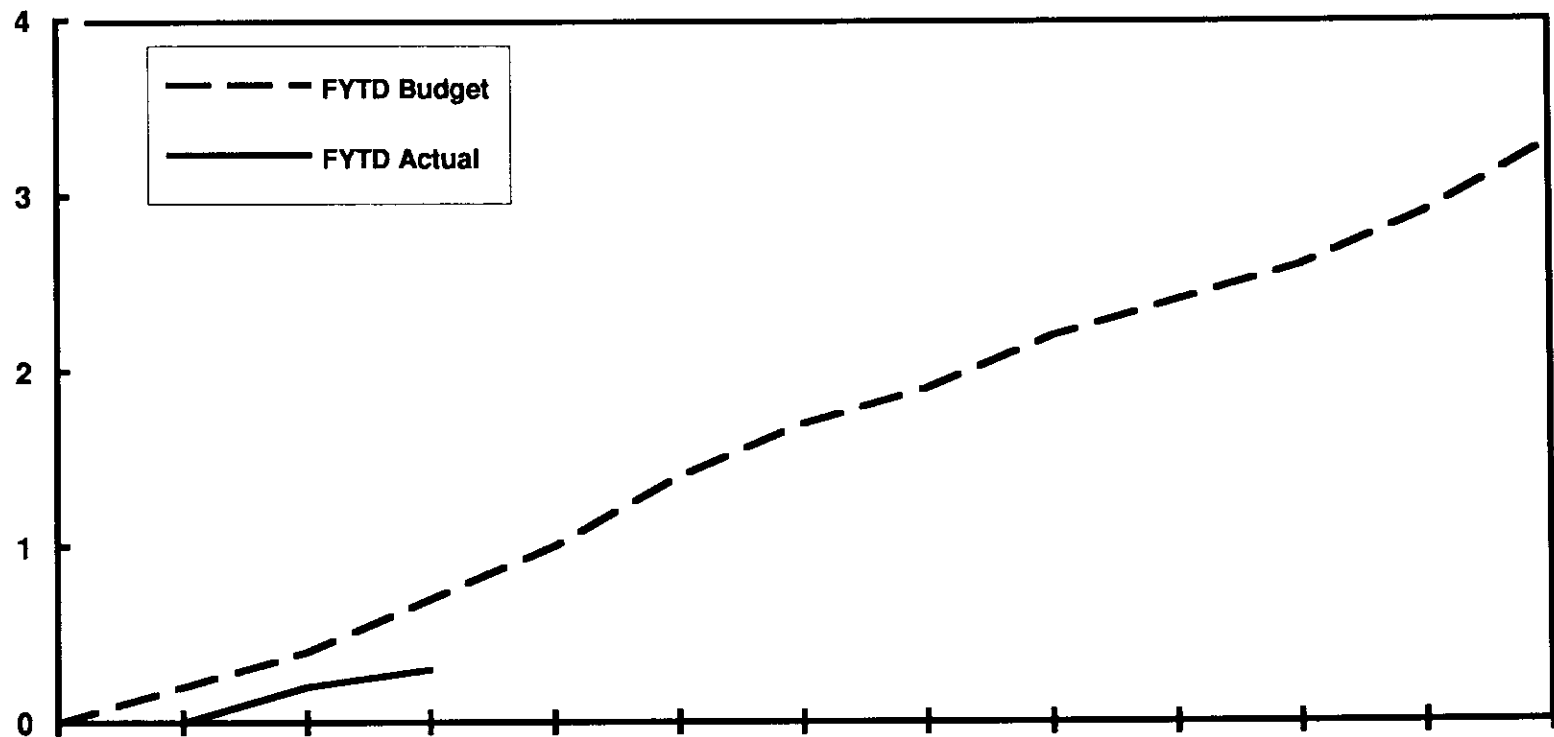
**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

9 3 1 9 0 5 7 1 9 6 8

# **MILESTONE M-08-00** FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.2	0.4	0.7	1.0	1.4	1.7	1.9	2.2	2.4	2.6	2.9	3.3
FYTD Actual	0.0	0.2	0.3									
Spending Var	0.2	0.2	0.4									

Variance Explanation: Personnel for the integrated Retrieval Program Plan was not available as planned.  
If the staff ceiling cannot be lifted, staff will be reassigned to this effort.



**MAJOR MILESTONE: M-09-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

**DESCRIPTION:**

Complete closure of all 149 SSTs.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Continued borehole drilling and characterization activities around SST 241-T-106 for the field characterization work to support General Accounting Office (GAO) audit item (GAO-RCED-89-157). The borehole has reached the zone of contamination; environmental and geophysical sampling is in progress. This activity is continuing after several meetings with the regulators to resolve outstanding issues.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Redefine SST waste disposal strategy under the Tank Waste Remediation System Decision Plan.
- Issue to the Federal Register a NOI for the TWRS-EIS for tank remediation at the Hanford Site.
- Commence work on the next revision to the Single-Shell Tank Closure/Corrective Action Work Plan, a precursor document for the Single-Shell Tank Closure Plan.

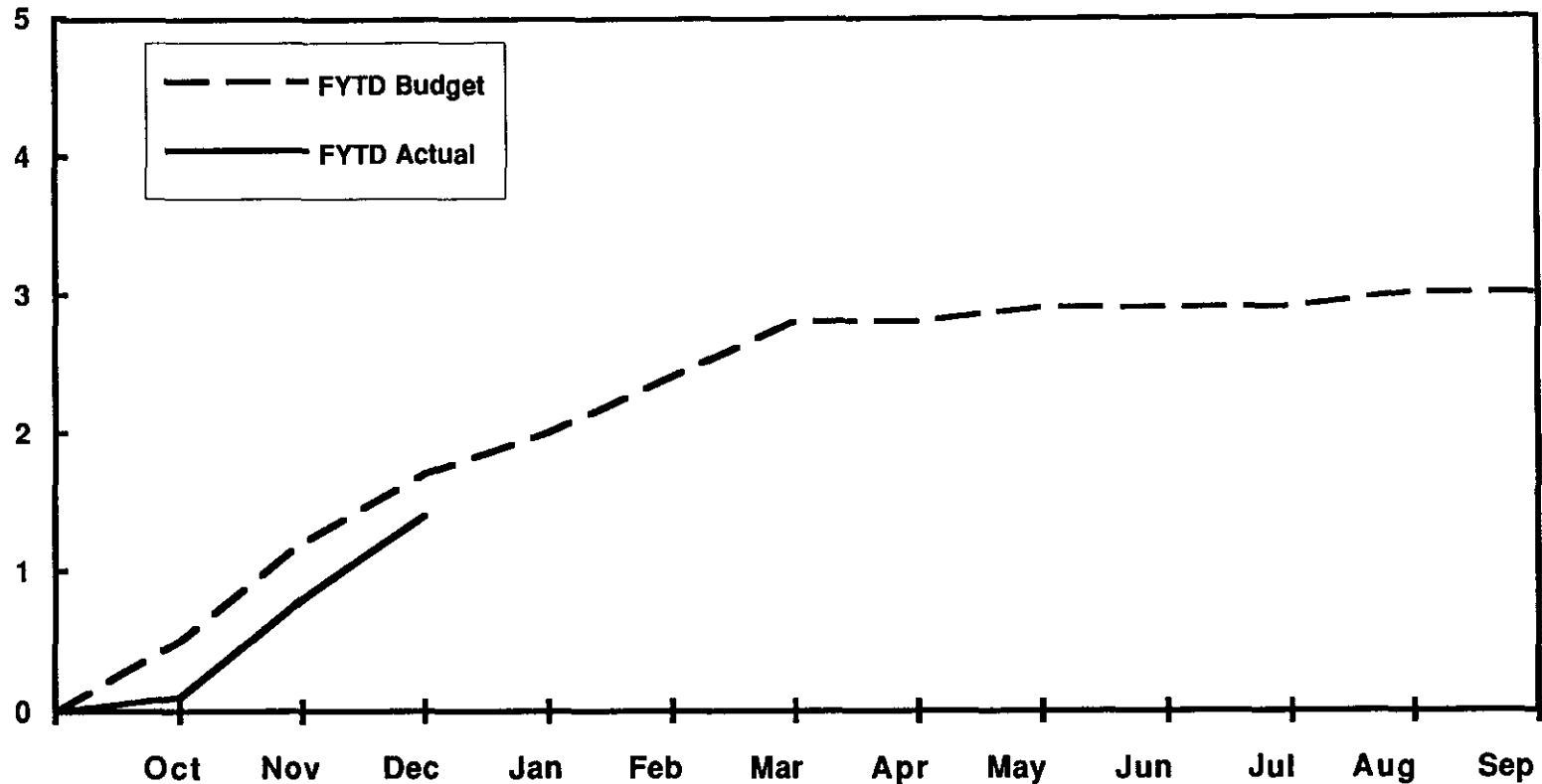
**MILESTONES STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule; however, it may be in jeopardy unless preclosure activities can be accelerated. The activities requiring acceleration include supplemental environmental impact statement and record of decision (SEIS-ROD) preparation, SST waste and field characterization, technology development, and concurrent permitting with facility design.

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# **MILESTONE M-09-00** FY 1993

\$ Millions



FYTD Budget

Oct

Nov

Dec

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

FYTD Actual

0.1

0.8

1.4

Spending Var

0.4

0.4

0.3

Variance Explanation: Additional documentation requirements for waste handling and disposal for the 241-T-106 Vadose Zone Investigation prevented drilling and sampling activities to be initiated as scheduled. Full schedule recovery is anticipated.

**MAJOR MILESTONE: M-10-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

**DESCRIPTION:**

Complete analyses of at least two complete core samples from each SST.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary mode sampling capability at the Hanford Site.	9/93	9/93

**ACCOMPLISHMENTS**

- Development of plans to employ an off-the-shelf exhaustor for the rotary mode sampling system, employing best available commercial technology (BACT), is continuing based on meetings with Ecology and Washington State Department of Health personnel.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue rotary mode sampling testing and implementation.
- Issue the Tank Waste Remediation (TWR) Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWR requirements into a single plan.
- Commence discussions with the regulators on new HQ direction which proposes the SST Characterization Program and associated Tri-Party Agreement milestones be re-evaluated to reflect retrieval requirements. Characterization data will be required to (1) resolve tank safety issues; (2) develop retrieval technologies; and (3) identify pretreatment technologies. Once agreement is reached on this new baseline, the changes will need to be reflected in the Tri-Party Agreement major milestone M-10-00.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to

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ensure meeting these milestones, both internal and in consonance with the regulators. These are being discussed with the regulatory community.

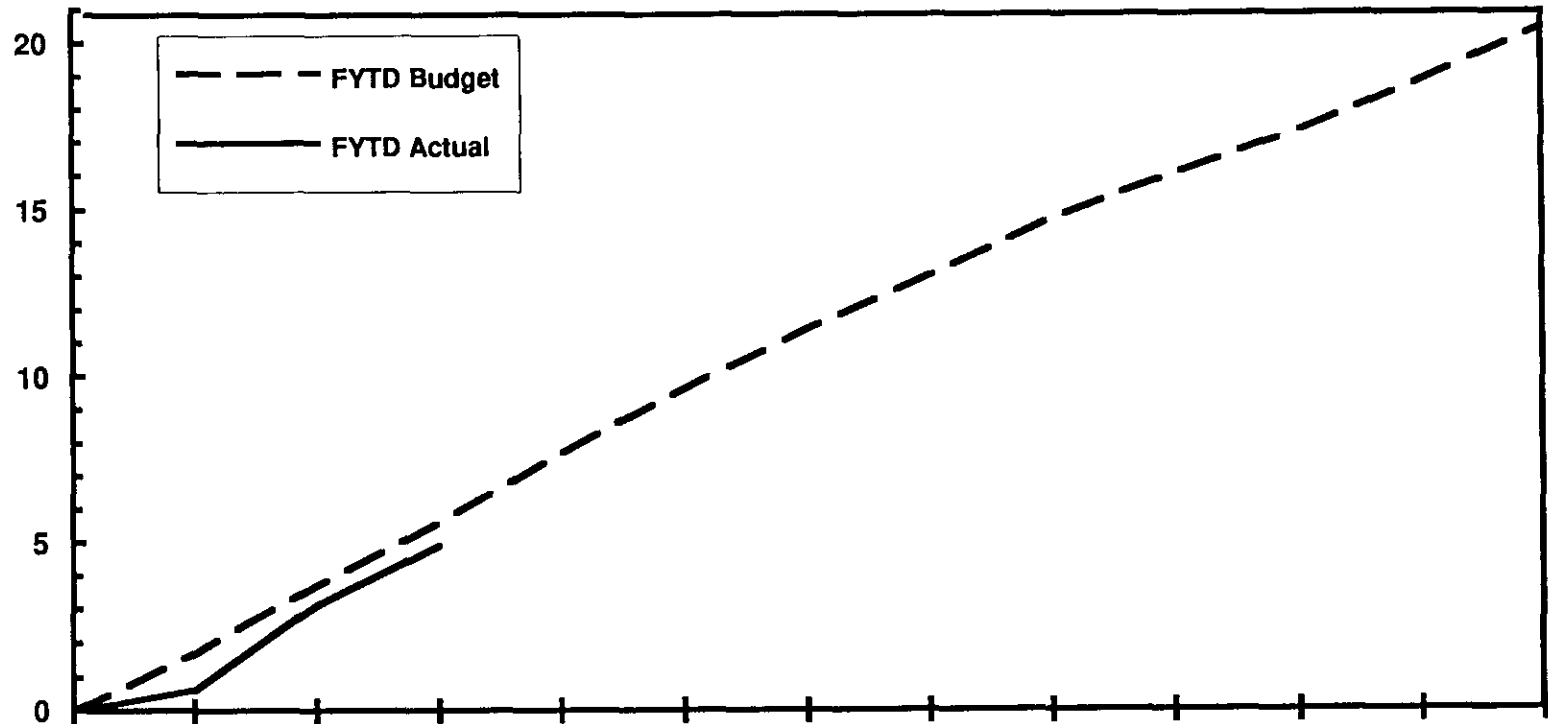
- RL conducted an audit of core sampling and analysis which identified several procedural concerns. All core sampling activity was suspended in November to ensure worker safety, pending resolution of the audit findings. Effects from this action to the interim milestone M-10-07 are being studied to minimize schedule impacts.

9 3 1 2 0 3 7 1 9 7 3

# MILESTONE M-10-00

## FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.0	14.7	16.0	17.3	18.8	20.4
FYTD Actual	0.6	3.1	4.9									
Spending Var	1.1	0.6	0.7									

Variance Explanation: WHC has temporarily suspended core sampling activities due to safety concerns. Of the three core samples scheduled only one has been taken. Actual costs for work performed by PNL for SST Core Analysis and Analytical Methods Development activities have not been received. Core sampling procedures and pre-job briefings will be improved to allow resumption of this work scope.

**MAJOR MILESTONE: M-11-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

**DESCRIPTION:**

Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Onsite construction on 222-S expansion for new hot cells continues to be slightly ahead of schedule. The foundation for the hot cell has been poured. Offsite fabrication of the hot cell fabrication continues on schedule.
- Testing for a Toxic Air Pollutant permit was performed as requested by Ecology. Test results were transmitted to Ecology.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue W-041H construction and fabrication activities. Witness the trial assemblies of the hot cell compartments. Erect building walls and roof and begin hot cell installation.

**MILESTONE STATUS/PROBLEMS/ISSUES**

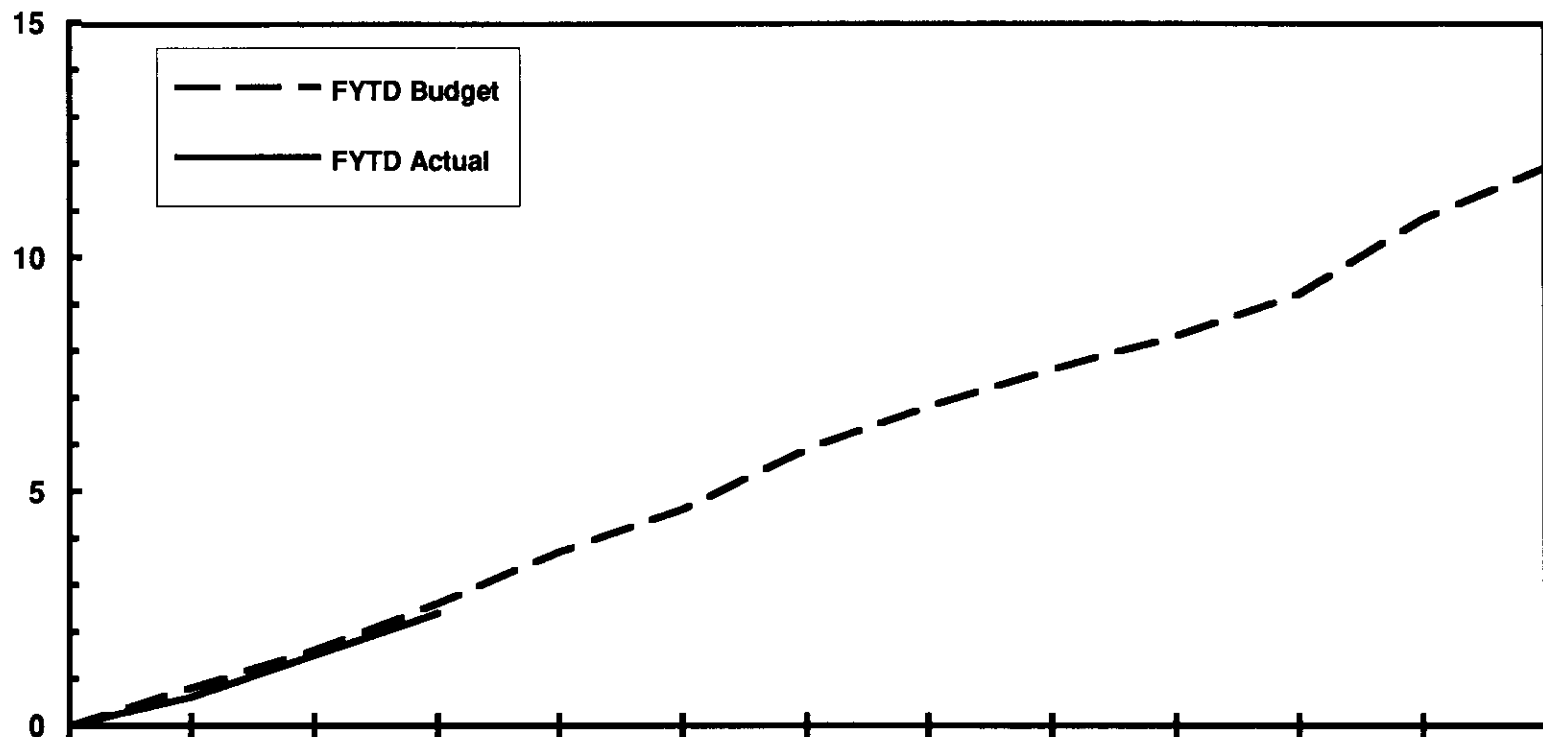
- The required date for authorization of additional funding for *Project W-001, 222-S Ventilation and Electrical System Upgrade*, was extended from August 1992 to January 1993. This extension of the funding date (which also prevents a delay in the startup of the hot cell expansion) was made possible by lower-than-expected construction bids and procurements. The reprogramming request, originally returned by Congress, has been resubmitted. Contingency plans are being developed in the event approval of the \$2.9 million reprogramming request is delayed.
- The trial assembly of the first hot cell has been delayed until February as a result of minor fabrication problems and adverse weather. No schedule impacts are expected.

9 0 1 2 0 6 7 0 9 7 5

# MILESTONE M-11-00

## FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.8	1.6	2.6	3.7	4.6	5.9	6.8	7.6	8.3	9.2	10.8	11.9
FYTD Actual	0.6	1.5	2.4									
Spending Var	0.2	0.1	0.2									

Variance Explanation: Budget at completion decreased because contingency was moved from FY 1993 to FY 1994.

**MAJOR MILESTONE: M-13-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

**BASELINE DATE:** Annual Beginning  
calendar year  
(CY) 1993

**PROJECTED DATE:** Annual Beginning CY 1993**DESCRIPTION:**

Submit six RI/FS or RCRA RFI/CMS work plans per year.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MAJOR MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Completed a draft of the 200-UP-1 operable unit (OU) work plan.
- Initiated development of test plans for the 200 West groundwater predictive model in the 200-UP-1 and 200-ZP-1 OUs.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

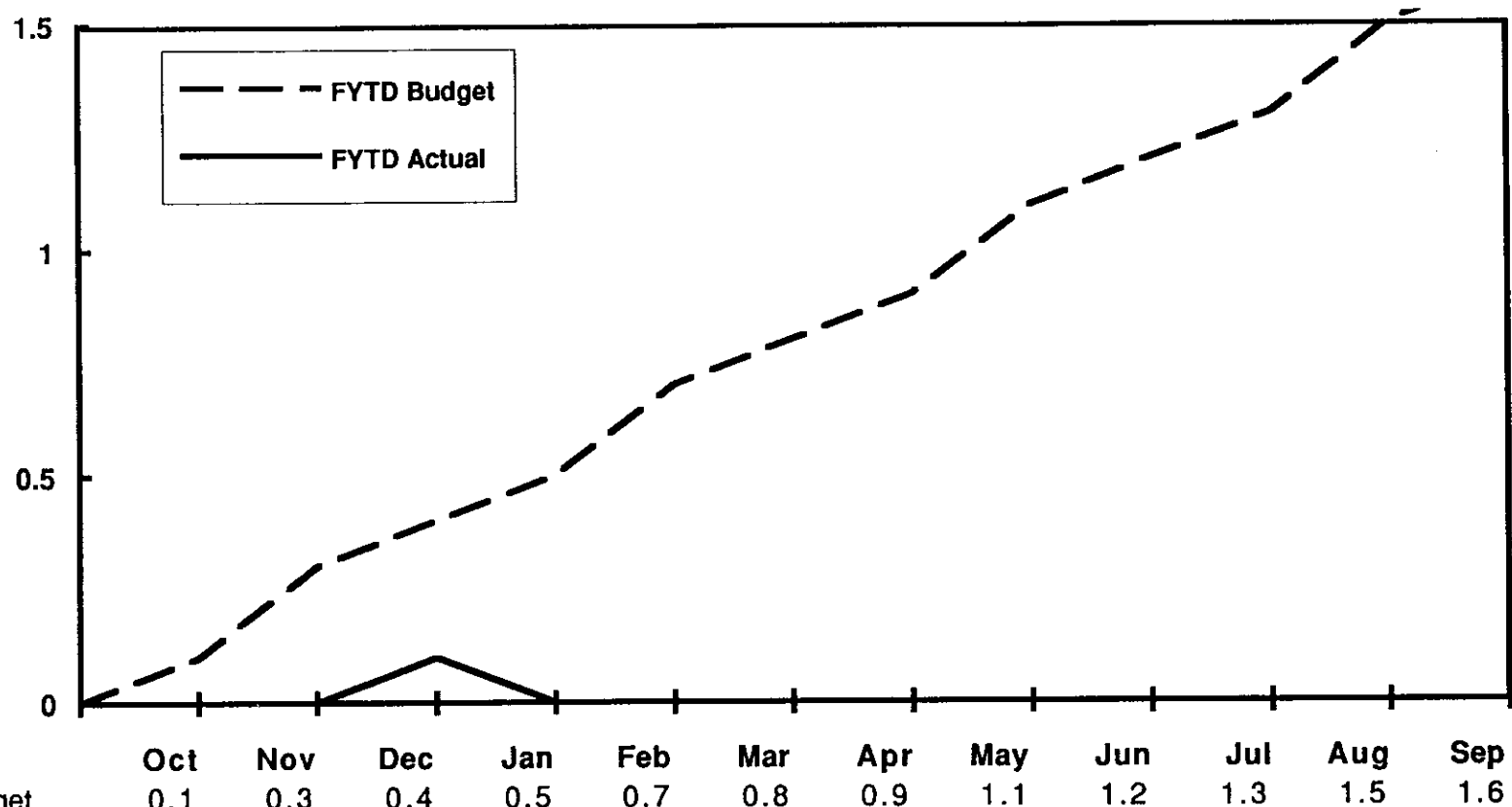
- Submit 100-BC-2 work plan to the regulators for review.
- Submit the 200-UP-1 workplan to the regulators for review.
- Submit a change request to regulators consolidating OUs 100-BC-3 and 100-BC-4 into 100-BC-2.
- Initiate a change request to delay issuance of the 100-BC-5 Work Plan from February 28, 1993 to April 30, 1993 to allow for the consolidation of 100-BC-3 and 100-BC-4 into 100-BC-2.
- Draft change request consolidating OU 100-DR-3 into 100-DR-2.
- Resolve comments on the OU 200-UP-2 work plan with the regulators.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.



# **MILESTONE M-13-00** FY 1993



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.1	0.3	0.4	0.5	0.7	0.8	0.9	1.1	1.2	1.3	1.5	1.6
FYTD Actual	0.0	0.0	0.1									
Spending Var	0.1	0.3	0.3									

Variance Explanation: The 100-BC-2 work plan was prepared in-house as opposed to offsite, resulting in cost savings due to lower charge out rates for work plan preparation. The 100-HR-2 work plans were delayed by one month (100-HR-2 will also be prepared internally).

**MAJOR MILESTONE: M-14-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: January 1992

PROJECTED DATE: In Dispute

**DESCRIPTION:**

Complete construction and initiate operations of a mixed LLW laboratory.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Continued planning activities to provide analytical services to satisfy the proposed dispute resolution requirements.
- The Senior Executive Committee (SEC) developed resolution of the final points in the dispute resolution.
- Continued Waste Sampling and Characterization Facility (WSCF) construction on schedule.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Sign the SEC agreement for resolution of dispute.
- Continue WSCF construction. Receive laboratory modules and start installation.

**MILESTONE STATUS/PROBLEMS/ISSUES**

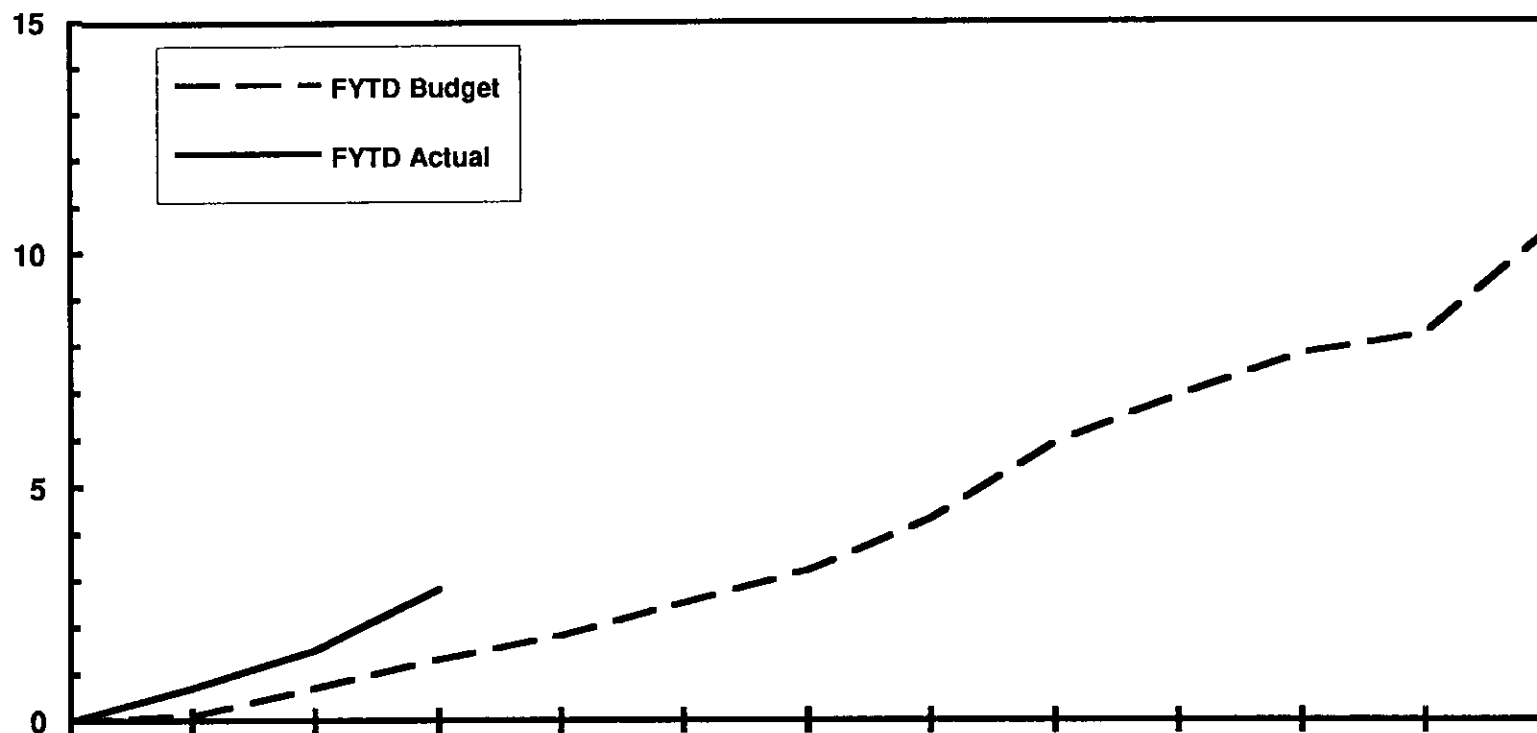
- Final approval of the SEC agreement is required to resolve the existing dispute on this milestone. As of December 31, 1992, RL is awaiting HQ concurrence on the resolution package.

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# MILESTONE M-14-00

FY 1993

\$ Millions



FYTD Budget

Oct

Nov

Dec

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

FYTD Actual

0.1

0.7

1.3

1.8

2.5

3.2

4.3

5.9

6.9

7.8

8.2

10.4

Spending Var

-0.6

-0.8

-1.5

Variance Explanation: The overspent condition is a result of budget planning. In FY 1992, less budget than planned was required. To compensate for this situation in FY 1993, less budget than required was planned for the first few months of the fiscal year. This will allow actual costs to catch up with planned expenditures.

**MAJOR MILESTONE: M-15-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

**DESCRIPTION:**

Complete the RI/FS or RFI/CMS process for all OUs.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-15-01B/C	Submit final 1100-EM-1 RI/FS report to EPA and Ecology.	12/92	12/92
M-15-02D	Submit draft phase I, II, and III FS for 200-BP-1 source areas.	6/93	6/93
M-15-04A	Submit draft 300-FF-5 F/S Phase 1/2 report to EPA and Ecology.	7/15/93	7/15/93

**ACCOMPLISHMENTS**

- Submitted the final 1100-EM-1 RI Phase II and FS Phase III Report to Tri-Party Agreement principals on December 30, 1992, thus completing milestone M-15-01B/C.
- Initiated consolidation of all 1100 Area OUs for purposes of early remediation.
- Initiated the qualitative risk assessment (QRA) for the 100-BC-1 limited field investigation. An example of a QRA was presented to the regulators on December 21, 1992.
- Initiated the evaluation of sample data in preparation of the limited field investigation reports.
- Submitted the 100-BC-5 first round of validated groundwater data to EPA and Ecology meeting Tri-Party Agreement interim milestone M-15-09A on 12/30/92.
- Work continues by the subcontractor to complete data validation and evaluation efforts for preparation of the RI Phase I and FS I and II reports for the 300-FF-5 OU.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Initiate the Treatability Tests for 100-BC-1, 100-DR-1, and 100-HR-1.
- Complete consolidation of all 1100 Areas for early remediation.
- Complete the 100-BC-5, 100-HR-3, and 100-KR-4 OUs' third round of groundwater sampling.
- Release validation reports to the regulators by the end of January for 100-DR-1.
- Complete data validation of the first and second rounds of groundwater sampling at the 100-HR-3 OU to be available to the regulators in January.
- Complete 100-FR-1 vadose boreholes and test pits.
- Complete 100-HR-2 and 100-FR-3 second quarter groundwater sampling.

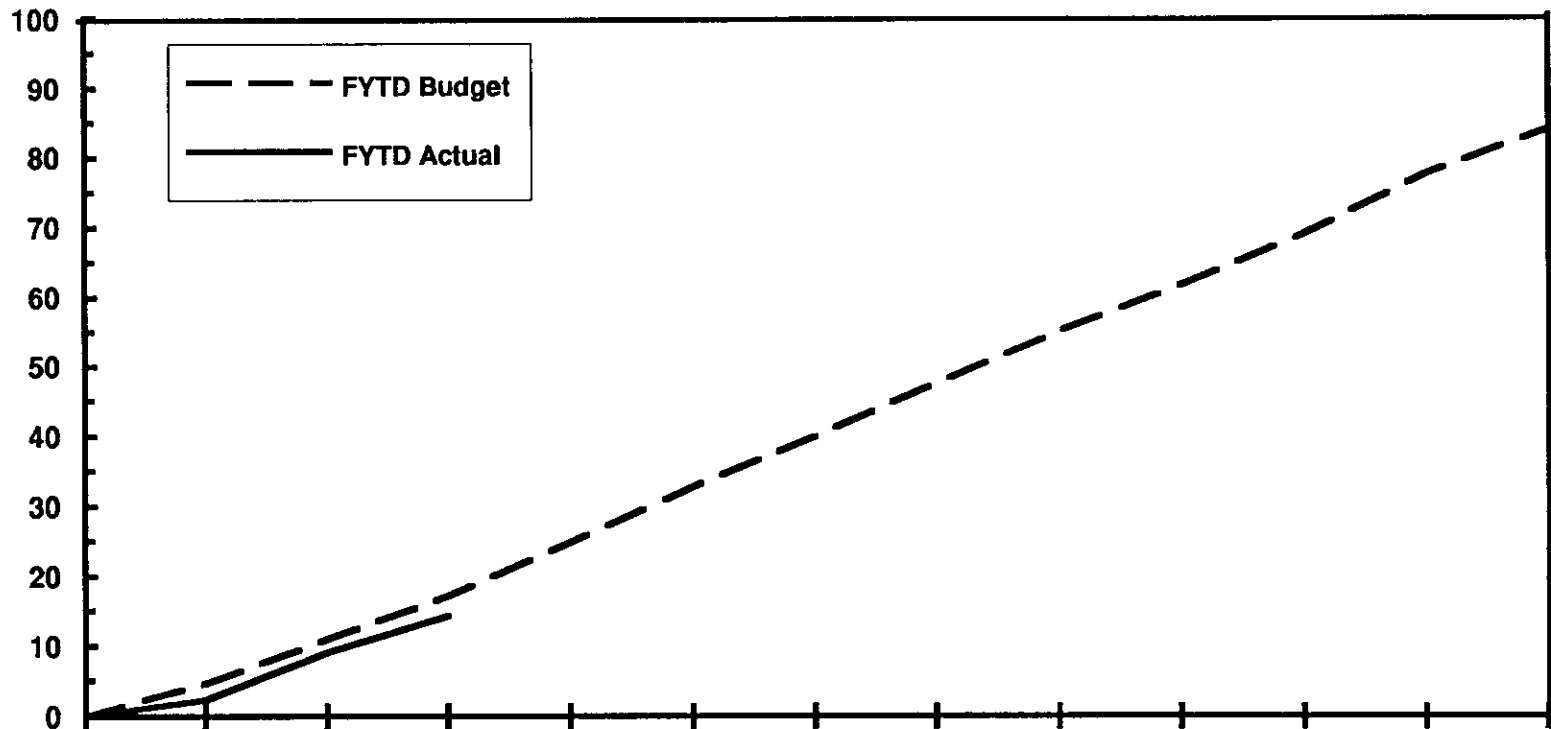
**MILESTONE STATUS/PROBLEMS/ISSUES**

- The award of the 300-FF-1 OU treatability test contract has been protested by some of the unsuccessful bidders. It has been determined that the process of resolving the protests will take potentially as long or longer to resolve than issuing a new request for proposal (RFP). As a result, the present contract will be canceled and a new procurement will be issued. This will result in a minimum of 9 months delay in commencement of the testing activity originally scheduled for the January timeframe.
- This milestone is on schedule.

# MILESTONE M-15-00

## FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	4.6	11.0	17.2	24.8	32.7	39.9	47.4	54.9	61.6	68.9	77.4	83.8
FYTD Actual	2.3	9.1	14.3									
Spending Var	2.3	1.9	2.9									

Variance Explanation: Soil treatability testing activities at the 300-FF-1 O.U. have not commenced as planned due to procurement complications with the potential vendors. Soil contractor billings have not been received as planned. Receipt of validated data for 100-DR-1, 100-HR-1 and 100-HR-3 has delayed initiation of Qualitative Risk Assessments and Limited Field Investigations.

**MAJOR MILESTONE: M-16-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 1988

PROJECTED DATE: September 1992

**DESCRIPTION:**

Complete the remedial actions for all OUs.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Completed sampling at the White Bluffs Pickling Acid Crib on December 7, 1992.
- Completed installation of soil gas probes at the Riverland expedited response action (ERA) site.
- Received bids for leasing a 500 ft<sup>3</sup>/min vapor extraction system (VES) to provide additional VES capability at the Carbon Tetrachloride ERA.
- Completed a proposal to initiate an ERA for carbon tetrachloride contaminated groundwater in OU 200-ZP-1.
- Initiated Phase II sampling activities at the North Slope ERA.
- The environmental engineering cost assessment (EECA) for the Sodium Dichromate ERA was issued for parallel review between the Tri-Party Agreement principals and the general public.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Issue a contract for leasing a 500 ft<sup>3</sup>/min VES to provide additional VES capability at the Carbon Tetrachloride ERA.
- Issue the planning proposal for the 200 West Area Groundwater ERA.
- Completed Phase I Sampling activities for the Riverland Rail Wash Pit.
- Commence 24-hour operations at the Carbon Tetrachloride ERA.
- Issue the EECA for the North Slope, Riverland Rail Wash Pit, and Pickling Acid Crib ERAs.

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**MILESTONE STATUS/PROBLEMS/ISSUES**

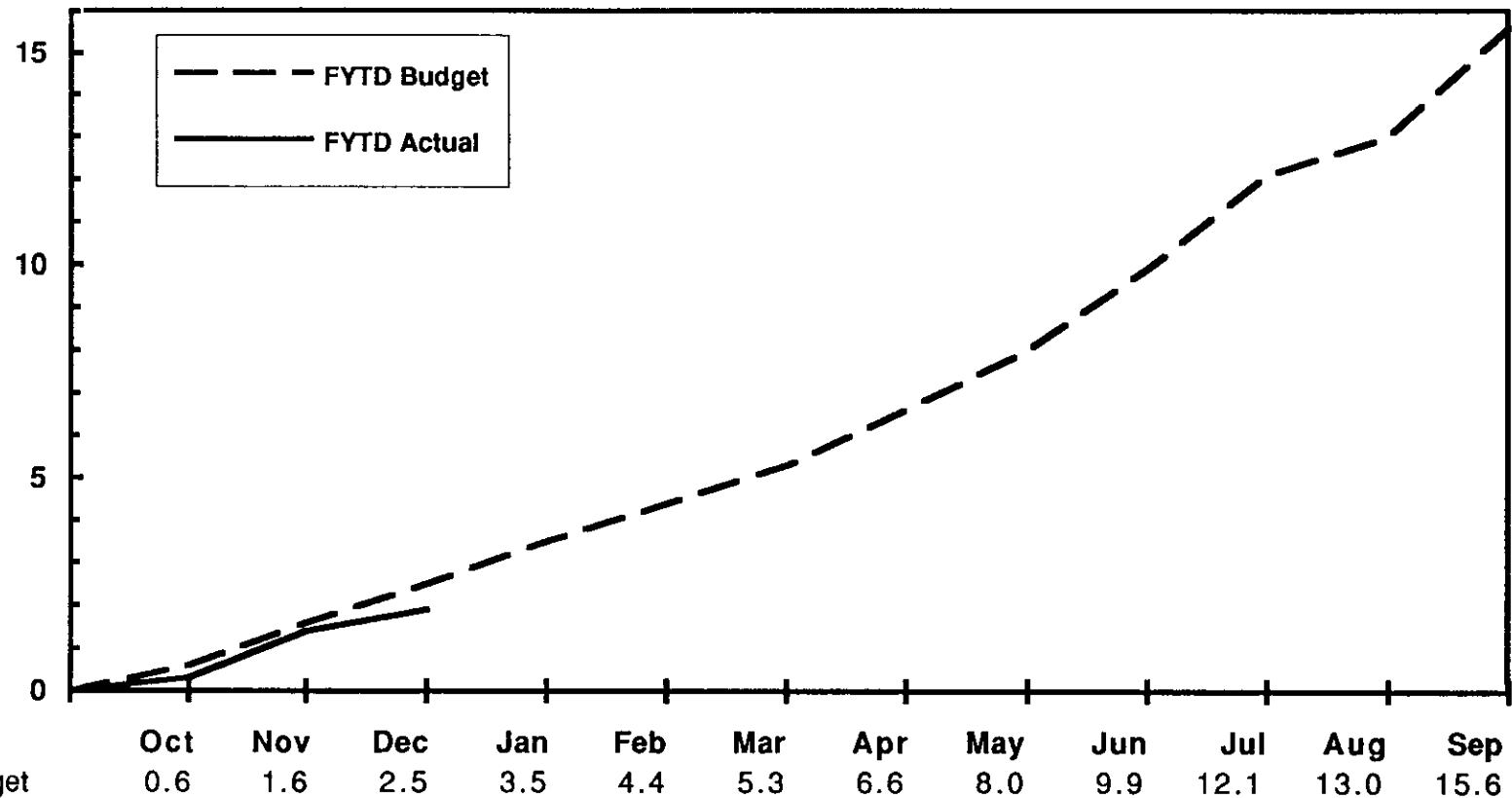
- This milestone is on schedule.

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# **MILESTONE M-16-00** FY 1993

\$ Millions



FYTD Budget  
FYTD Actual  
Spending Var

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.6	1.6	2.5	3.5	4.4	5.3	6.6	8.0	9.9	12.1	13.0	15.6
FYTD Actual	0.3	1.4	1.9									
Spending Var	0.3	0.2	0.6									

Variance Explanation: The pipeline integrity test for the carbon tetrachloride ERA is behind schedule due to diversion of staff to higher priority work. The staff prioritization issues are being addressed by management and schedules are being revised.

MAJOR MILESTONE: M-17-00  
 STATUS FOR END OF MONTH: DECEMBER 1992

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

M-17-00A:

BASELINE DATE: June 1995

PROJECTED DATE: June 1995

## DESCRIPTION:

Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

M-17-00B:

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

## DESCRIPTION:

Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment (BAT/AKART) for all Phase II liquid effluents at the Hanford Site.

## PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-17-09A	Complete definitive design of "300 Area Treated Effluent Disposal Facility" (Project L-045H) and submit design documentation to the EPA and Ecology as a primary document.	7/93	7/93

## ACCOMPLISHMENTS

- Completed 90% definitive design of "300 Area Treated Effluent Disposal Facility" (Project L-045H) and submitted design documentation to the EPA and Ecology (M-17-09A). This design proceeds ahead of schedule.
- Completed interim milestone M-17-17D by limiting the UO<sub>3</sub>/U Plant Wastewater effluent flow to less than or equal to 250 gal/min, averaged over the calendar month (M-17-17D).
- Completed definitive design of "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H), and submitted design documentation to the EPA and Ecology as a primary document (M-17-16C). This design was completed ahead of schedule and was transmitted to the EPA and Ecology in April 1992 for completion of this December 1992 interim milestone.

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- Installed flowmeter on the 400 Area Process Sewer.

#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Complete definitive design of the 200 Area Treated Effluent Disposal Facility (Project W-049H) collection system.
- Complete 30% definitive design of the Project W-049H disposal system and initiate detailed definitive design work on the disposal system.
- Initiate construction of the Project W-049H collection system.
- Initiate construction of the "242-A Evaporator/PUREX Condensate Treatment Facility" (i.e., Project C-018H) process facility.
- Complete design work on the 300 Area Treated Effluent Disposal Facility (Project L-045H) (M-17-09A).
- Present groundwater assessment plans to EPA and Ecology for the 216-U-14 Ditch, 216-Z-20 Crib, 216-U-17 Crib, and the 100-D Ponds by January 1993 (M-17-13).
- Present groundwater assessment plans to EPA and Ecology for the 1325-N Liquid Wastewater Disposal Facility, 216-W-LWC Crib, 284-W Powerhouse Pond, and the 2101-M Pond by April 1993 (M-17-13).
- Initiate negotiations on additional milestones containing the terms and conditions outlined by EPA and Ecology to allow continued discharges to the 300 Area Process Trenches.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- Milestone on schedule. Design work for the 300 Area Treated Effluent Disposal Facility (Project L-045H) proceeds ahead of schedule.
- Ecology and EPA outlined the terms and conditions under which they would approve continued discharge of the 300 Area Process Sewer to the 300 Area Process Trenches. Conditions include abandonment of the western trench, additional flow restrictions, additional reporting requirements, and installation of additional flow measuring devices. RL is evaluating the conditions and will initiate negotiations with the regulators on this issue.
- Change request for Tri-Party Agreement milestone M-17-17D (final flow reduction for the UO<sub>3</sub> Wastewater Effluent Stream) is under negotiation. The final flow rate restriction (250 gal/min) for this stream will not change, and RL has maintained the wastewater stream at or below this flowrate restriction since August 1991. The requested modification would allow for a temporary increase of UO<sub>3</sub> wastewater flow to accommodate the UO<sub>3</sub> Stabilization Run. Provisions for this temporary increase are currently included in interim Tri-Party Agreement milestone M-17-17A; however, the provisions must be transferred administratively to interim Tri-Party Agreement milestone M-17-17D to accommodate the revised

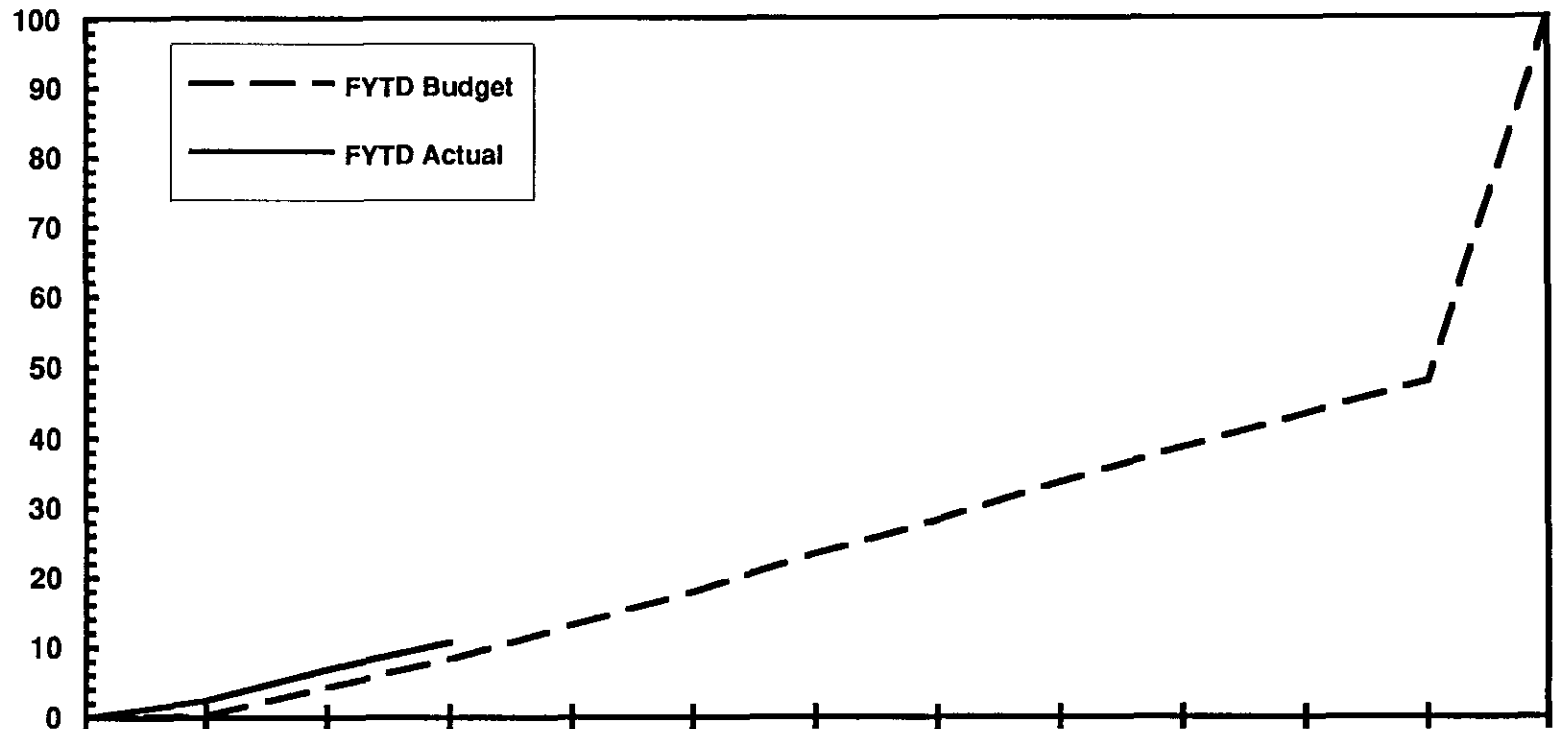
schedule of the stabilization run. The total flow to Crib 216-U-14 will not be increased as a result of this change.

- Compliance with all effluent flow restrictions contained in Tri-Party Agreement milestone M-17 have been maintained.

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# **MILESTONE M-17-00** FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.3	4.3	8.3	13.1	17.9	23.4	28.2	33.6	38.6	43.2	47.9	100.2
FYTD Actual	2.4	6.9	10.7									
Spending Var	-2.1	-2.6	-2.4									

Variance Explanation: The overrun is due to fast track design on L-045H, 300 area Treated Effluent Disposal Facility, and accelerated construction on C-018H, 242A Evaporator/PUREX plant Condensate Treatment Facility, and W-049H, 200 area Treated Effluent Disposal Facility.

**MAJOR MILESTONE: M-18-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

**DOE DIRECTOR: J. M. Hennig**

**MANAGER: R. J. Roberts**

**BASELINE DATE: March 1997**

**PROJECTED DATE: March 1997**

**DESCRIPTION:**

Complete Waste Receiving and Processing (WRAP), Module 1, construction and initiate operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Completed construction of the glovebox mockups.
- Continued discussions pertaining to the RCRA permit application at the monthly Tri-Party Agreement Unit Managers Meeting.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

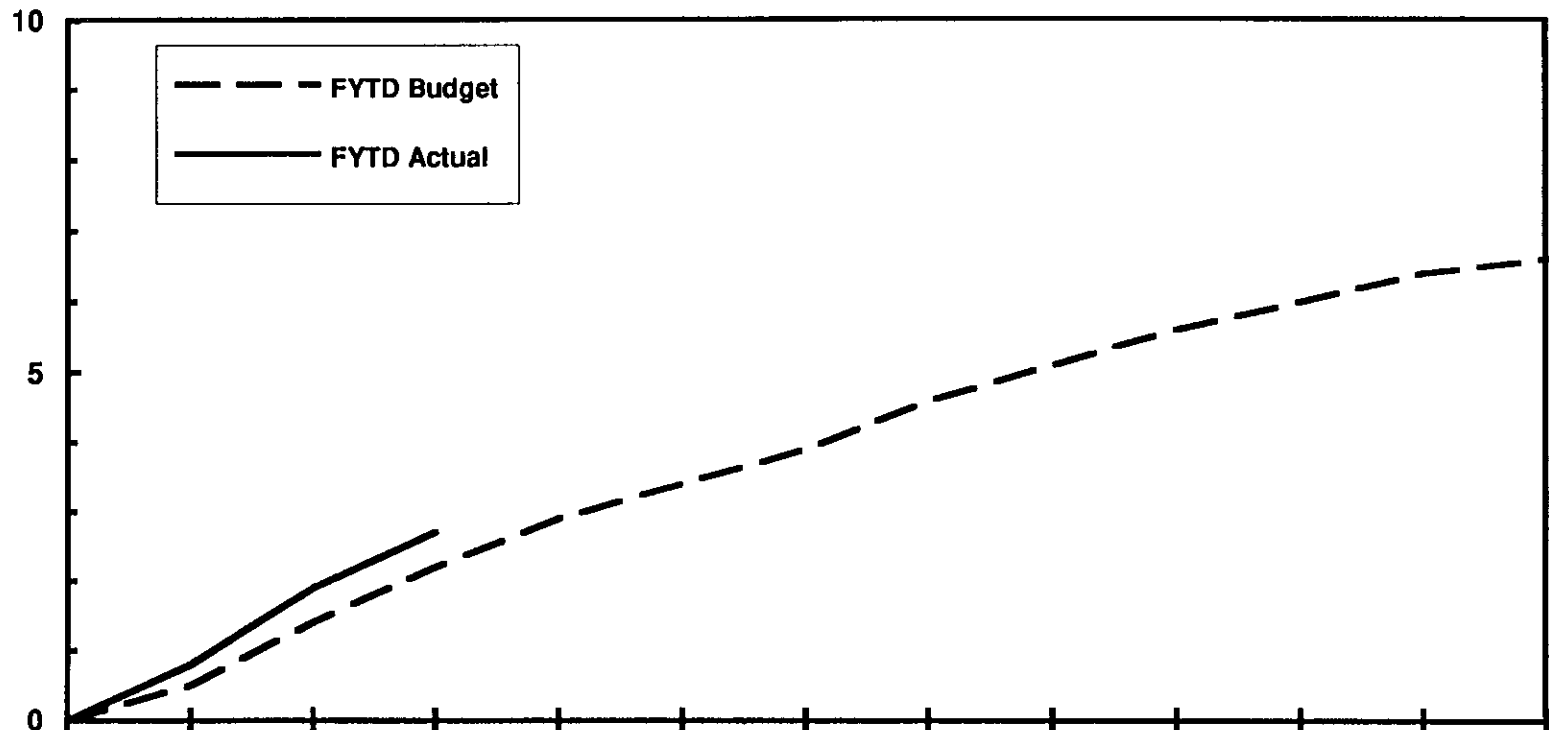
- Continue Title 2 Design activities and complete 90% design review.
- Initiate construction of WRAP, Module 1.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Milestone is on schedule.
- Insurmountable difficulties in obtaining representative samples from surrogate supercompacted wastes has required that alternative means of sampling and characterization be evaluated. The supercompactor has been eliminated from the transuranic (TRU) waste processing line, although a supercompactor will be available as part of the low-level radioactive waste processing line.

# **MILESTONE M-18-00** FY 1993

\$ Millions



FYTD Budget

Oct

Nov

Dec

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

FYTD Actual

0.8

1.9

2.7

Spending Var

-0.3

-0.5

-0.5

Variance Explanation: Cost overrun is due to expediting completion of the mock-up glovebox for testing, additional manpower focus to support A/E design, and additional unplanned Preliminary Safety Analysis Report responses were required.

**MAJOR MILESTONE: M-19-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

**DESCRIPTION:**

Complete WRAP, Module 2, construction and initiate operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(s) FOR THE NEXT 12 MONTHS**

MAJOR MILESTONE	DESCRIPTION	BASELINE	PROJECTED
None.			

**ACCOMPLISHMENTS**

- Meetings were conducted with United Engineers and Contractors to review the *Waste Form Qualification Program Plan and Testing Status*.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Complete an engineering study for WRAP 2B to develop alternatives for TRU treatment and recommendations for treatment (proposed interim milestone M-19-03).
- Continue preparation of the advanced conceptual design for WRAP, Module 2A.
- Obtain approval of Tri-Party Agreement change request M-19-91-01 from Ecology and EPA.
- Continue with waste form qualification testing.
- Initiate activities for the development of the WRAP, Module 2A, preliminary safety analysis report.
- Prepare and approve the WRAP 2A engineering and development program plan. This plan will outline the testing and development requirements for technologies being considered for inclusion in the WRAP 2A waste treatment systems.
- Obtain Key Decision 1 for WRAP 2A from HQ. This decision is required to proceed into detailed definitive design of the project.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Significant technical issues continue to exist regarding the Waste Isolation Pilot Project waste acceptance criteria impact on the design of

93123677993



WRAP, Module 2. The portion of WRAP 2 (i.e., WRAP 2B) that will receive and process remote handled transuranic waste and contaminated hazardous waste (i.e., mixed remote handled transuranic [RH-TRU] waste) is behind schedule. Design of WRAP, Module 2B, cannot proceed until the Waste Isolation Pilot Project waste acceptance criteria issues are resolved. The portion of WRAP that was not affected by the Waste Isolation Pilot Project waste acceptance criteria (i.e., WRAP, Module 2A) remains on schedule. The submodularization of WRAP, Module 2, is reflected in Tri-Party Agreement change request M-19-91-01, which is under review by Ecology and EPA.

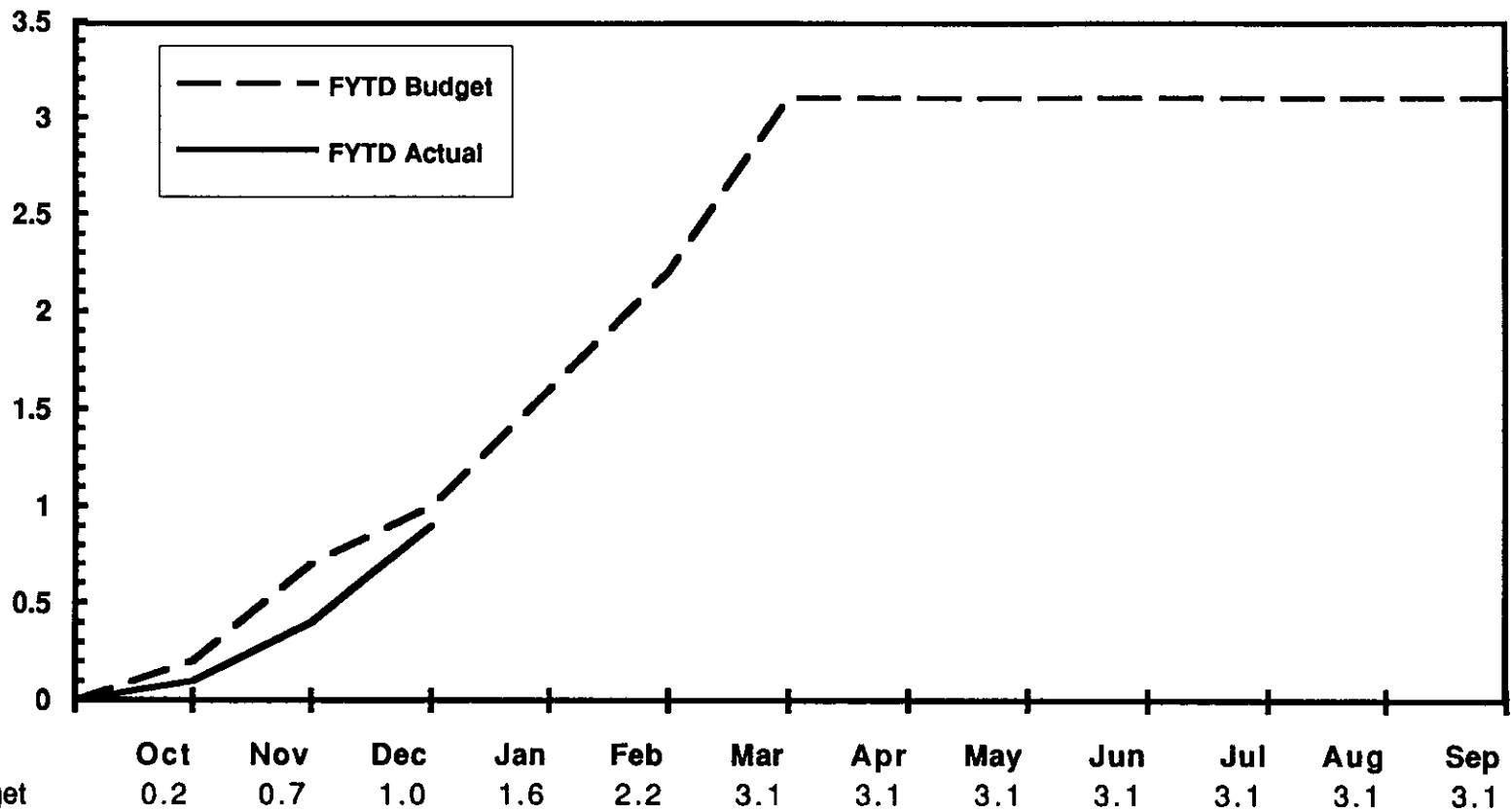
- WRAP, Module 2A, completion and initiation of operations is on schedule for September 1999, the Tri-Party Agreement Milestone M-19-00 due date. The engineering study for WRAP, Module 2B, to develop alternatives for TRU treatment and recommendations for treatment (proposed interim milestone M-19-03) is on schedule.

931236709994

# MILESTONE M-19-00

FY 1993

\$ Millions



FYTD Budget  
FYTD Actual  
Spending Var

Variance Explanation: The A/E contractor (U.E. & C) focused efforts on WRAP 1 design and CDR issues earlier this fiscal year rather than proceeding as scheduled on WRAP 2. Costs have caught up considerably and continue to be self-correcting as efforts have been redirected back to WRAP 2.

**MAJOR MILESTONE: M-20-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

**DESCRIPTION:**

Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units (TSD) units.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute*
M-20-40	Submit 100-D Ponds Closure Plan.	2/93	2/93
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94*
M-20-50	Submit 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility Part B.	8/93	8/93

\*See "Milestone Status/Problems/Issues."

**ACCOMPLISHMENTS**

- RL and Ecology met to initiate resolution of the dispute on withdrawal of the Part A Application for the 303-M Oxide Facility and deletion of the milestone for submitting a Part B application (M-20-30).

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Submit 305-B Part B Revision 1 (M-20-08).
- Develop and submit 100-D Pond Closure Plan (M-20-40)
- Respond to Notices of Deficiency for the 222-S Laboratory Complex Part B Permit Application (M-20-22; completed December 1991) and for the 4843 Alkali Metal Storage Facility Closure Plan (M-20-14; completed June 30, 1991).

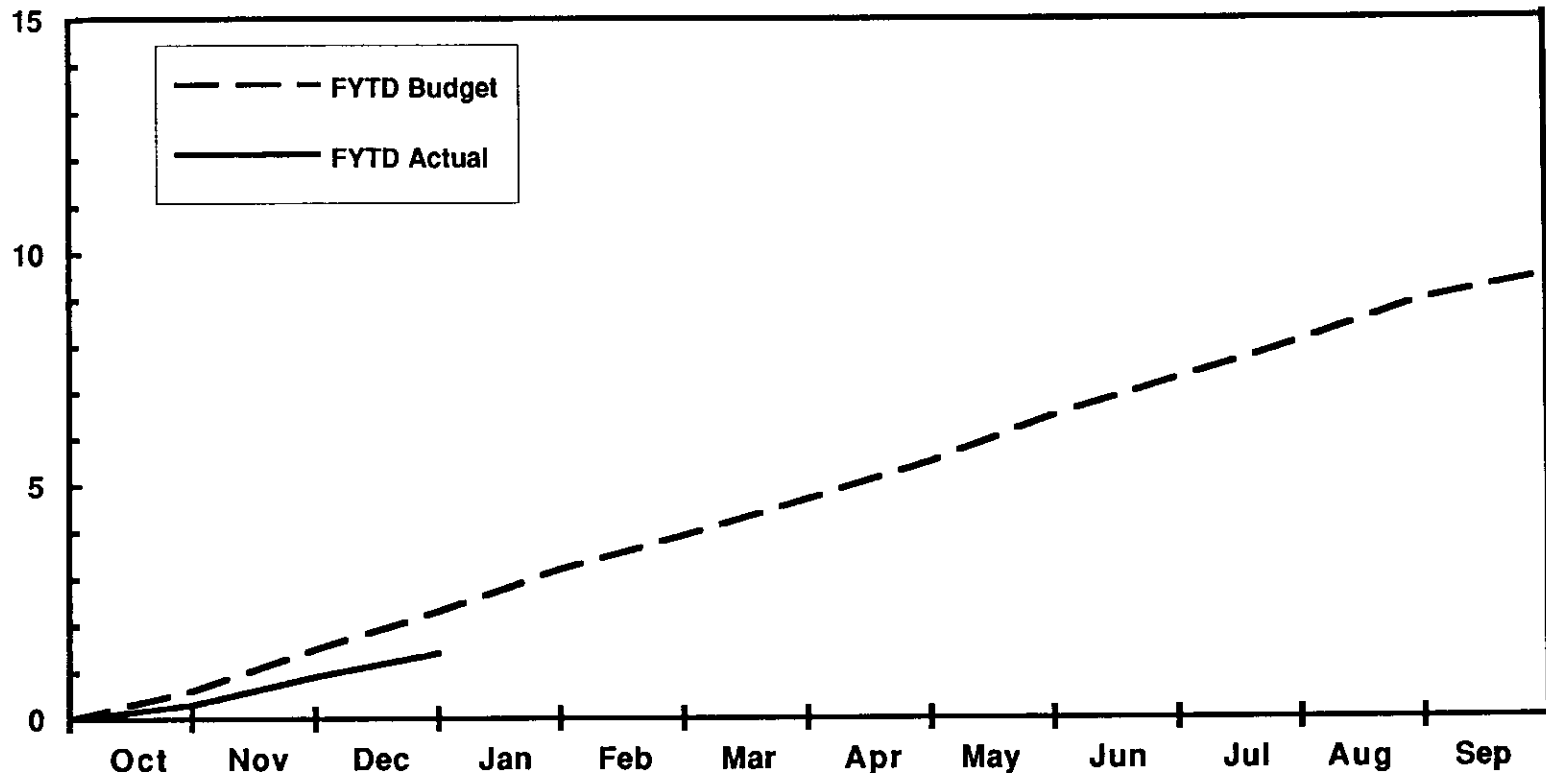
## MILESTONE STATUS/PROBLEMS/ISSUES

- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--A request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete milestone M-20-30 were prepared and transmitted to Ecology. Ecology denied both. A notice of dispute was prepared by RL and a meeting was held with Ecology to initiate resolution.
- M-20-40, "Submit 100-D Pond Closure Plan to Ecology and EPA"--Work is proceeding on schedule to meet the current milestone date. A draft closure plan is in RL review.
- M-20-42, "Submit Thermal Treatment Part B to Ecology and EPA (T-X-3)"--Development of the Part B application for this facility has identified several issues is resolved before a technically accurate and complete application to be prepared. A proposal to request delay of this milestone to December 1994 was discussed at the milestone review meeting in December 1992.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--A tabulation of updates was prepared for the *Hanford Facility Dangerous Waste Permit Application, Rev. 0*, originally submitted to the regulators (Ecology and EPA) in October of 1991. This update is a tabulation of changes required to reflect the *Hanford Site Comments on the Draft Permit for the Treatment, Storage, and Disposal of Dangerous Waste for the Hanford Facility* submitted to the regulators on March 16, 1992. This update action will not be executed until approval has been received from HQ. HQ concurrence was expected before the end of December 1992, but has still not been received. Work was conducted to incorporate these updates into Revision 1 of the *Hanford Facility Dangerous Waste Permit Application*, now scheduled to be completed by January 31, 1993.

The schedule for reissuance by Ecology and EPA of the revised Draft Hanford Facility Permit for public comment remains indefinite; informal discussions with the regulators indicate that reissuance will not occur before mid-February 1993.

# **MILESTONE M-20-00** FY 1993

\$ Millions



FYTD Budget  
FYTD Actual  
Spending Var

Oct    Nov    Dec    Jan    Feb    Mar    Apr    May    Jun    Jul    Aug    Sep

0.6    1.5    2.3    3.2    3.9    4.7    5.5    6.5    7.3    8.1    9.0    9.5

0.3    0.9    1.4

0.3    0.6    0.9

Variance Explanation: The under run is due to continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses resulting in less than planned support for follow on revisions of these documents.

**MAJOR MILESTONE: M-24-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. Thompson

BASELINE DATE: December 1992

PROJECTED DATE: December 1992

**DESCRIPTION:**

Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-24-00	Install 50 wells for CY 1992.	12/92	12/92
M-24-30	Install two additional wells RCRA around the 1325-N Crib (4 total).	12/93	12/93
M-24-31	Install 2 additional RCRA wells around the low-level burial grounds (81 total)	12/93	12/93
M-24-32	Install 3 additional RCRA wells around the GTF (13 total).	12/93	12/93

**ACCOMPLISHMENTS**

- Completed all actions associated with meeting the final interim milestone (M-24-23) and the major milestone for CY 1992.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Initiate drilling activities for CY 1993 wells.
- Prepare and submit documentation of achieving a RCRA-compliant groundwater monitoring system for the Hanford Site.

**MILESTONE STATUS/PROBLEMS/ISSUES**

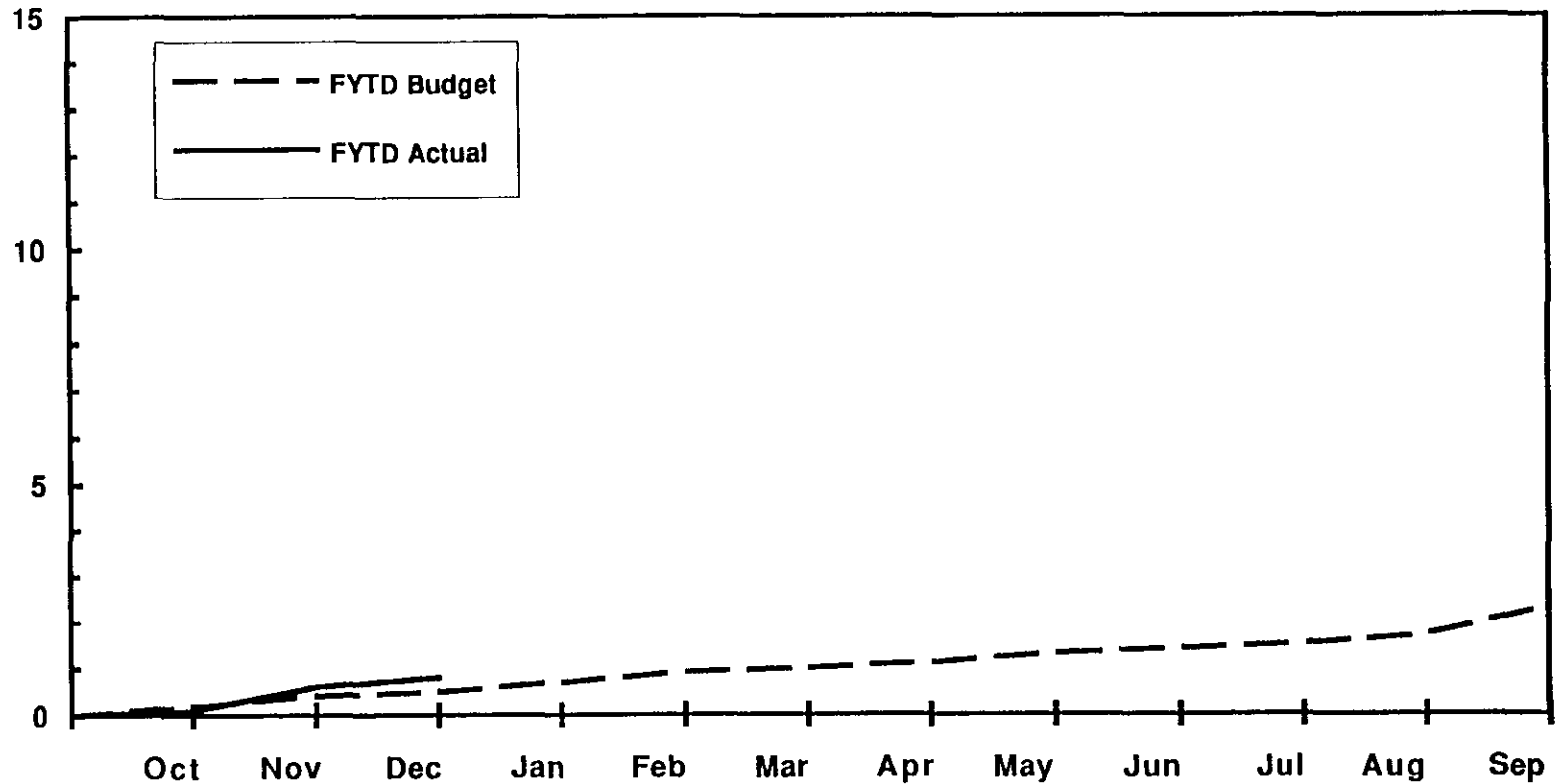
- Hanford technical staff, working with Ecology technical staff, have determined the locations for 26 sites to receive RCRA groundwater monitoring wells in CY 1992. Ecology has indicated technical agreement on reducing the CY 1992 milestone to require up to 30 wells to be drilled

instead of the currently required 50 wells. The change package modifying the major milestone to read "up to 50 wells per year," consistent with the number of wells required in CY 1992, began a public review period in April 1992. Responses to the few public comments were received and the package was ready for signature in August. No modifications of the proposed change in the milestone were required. The change package was signed by all parties in December.

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# **MILESTONE M-24-00** FY 1993

\$ Millions



FYTD Budget

Oct

Nov

Dec

Jan

Feb

Mar

Apr

May

Jun

Jul

Aug

Sep

FYTD Actual

0.1

0.6

0.8

Spending Var

0.1

-0.2

-0.3

Variance Explanation: Work not completed in FY 1992 is still in progress causing the overspent condition.

Work is on schedule for timely completion of the milestone.



**MAJOR MILESTONE: M-26-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

**DESCRIPTION:**

Submit annual Hanford land disposal restrictions (LDR) report in accordance with the LDR plan to cover the period from April 1 through March 31.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-26-01C	Submit an annual Hanford LDR report in accordance with the LDR plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/93	4/30/93

**ACCOMPLISHMENTS**

- The contractor initiated work on the 1993 LDR Report.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- The contractor is scheduled to issue the preliminary draft 1993 LDR Report for RL review in March 1993.

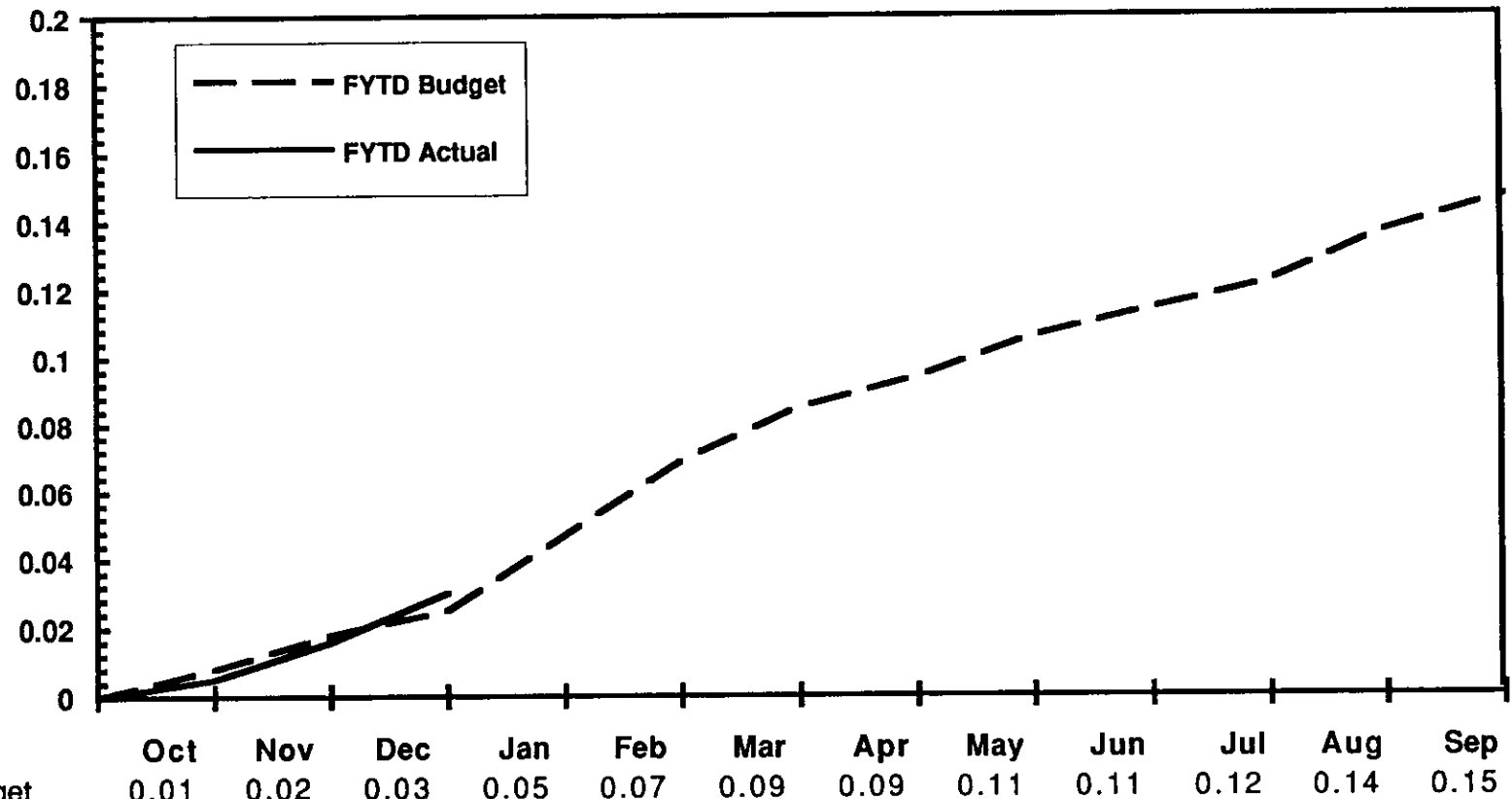
**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

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# **MILESTONE M-26-00** FY 1993

\$ Millions



FYTD Budget  
FYTD Actual  
Spending Var

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
0.01	0.02	0.03	0.05	0.07	0.09	0.09	0.11	0.11	0.12	0.14	0.15
0.01	0.02	0.03									
0.00	0.01	0.00									

**MAJOR MILESTONE: M-30-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Winctzak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

**DESCRIPTION:**

Complete integrated general investigations and studies for the 100 Area.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-30-05	Complete installation of all field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

**ACCOMPLISHMENTS**

- Completed a test plan for the 200 areas ecological assessment.
- Completed Columbia River sediment sampling; the samples are being analyzed.
- Dispositioned comments for the Columbia River impact evaluation plan.
- Drafted cultural resources reports.
- Initiated sensitive and critical habitat reports.
- Drafted aquatic sampling report.
- Initiated activities to delineate habitats of concern as identified in the Hanford Site baseline risk assessment methodology (HSBRAM) and the Columbia River impact evaluation plan.
- Initiated work on the toxicology of contaminants of concern for ecological investigations.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Issue cultural resource reports in February 1993.
- Issue Draft B of the Columbia River impact evaluation plan.
- Publish the aquatic sampling report in February 1993.

- A meeting is scheduled in January to resolve comments concerning DOE/RL-92-64, *Estimating Aquifer Hydraulic Properties using the Ferris Method, Hanford Site, Washington*.
- Schedule a meeting to define work scope required to complete M-30-05.

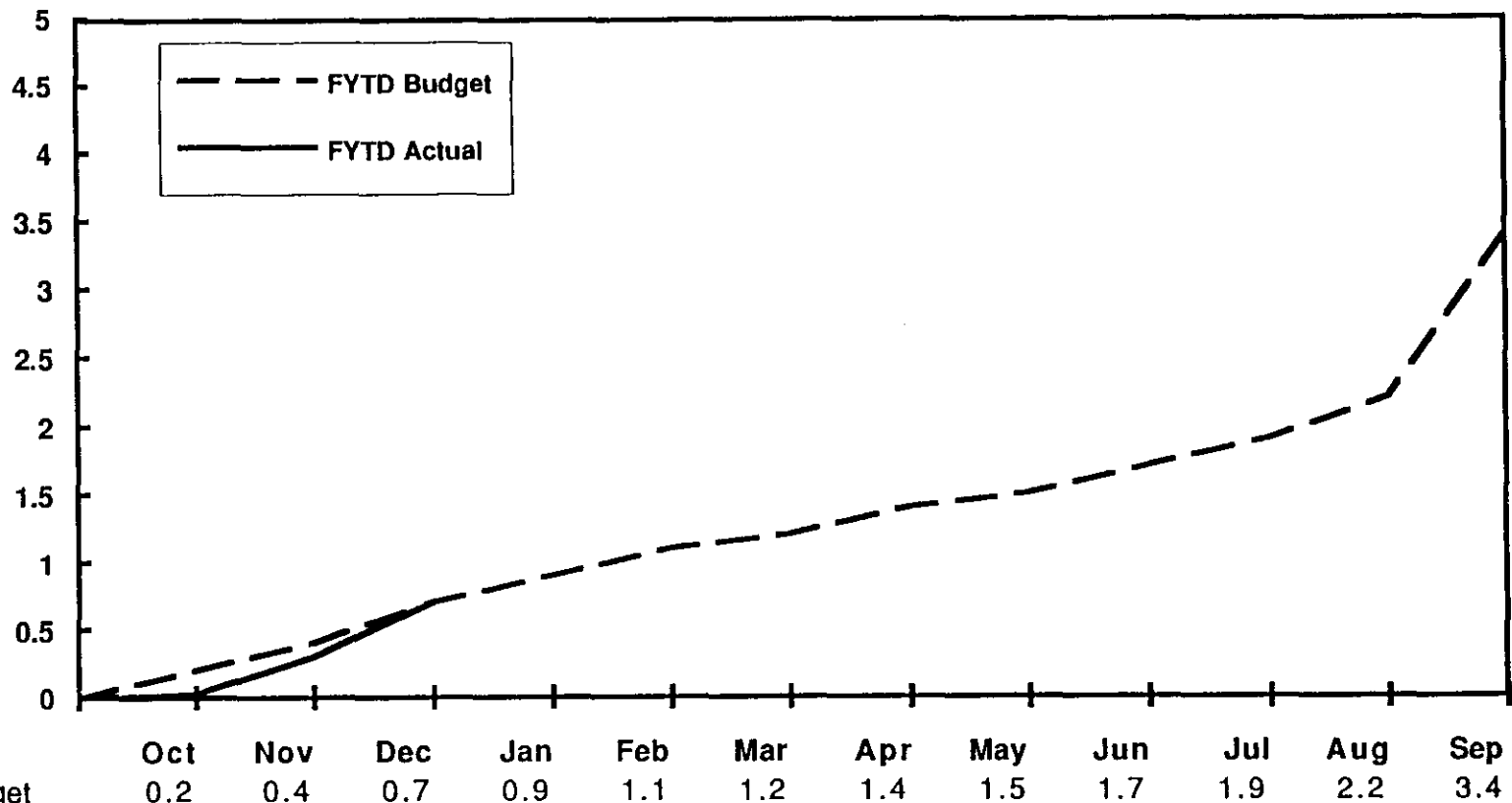
**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

9 0 1 2 0 6 7 1 0 0 5

# **MILESTONE M-30-00** FY 1993

\$ Millions



FYTD Budget  
FYTD Actual  
Spending Var

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
0.2	0.4	0.7	0.9	1.1	1.2	1.4	1.5	1.7	1.9	2.2	3.4
0.0	0.3	0.7									
0.2	0.1	0.0									

**MAJOR MILESTONE: M-31-00**  
**STATUS FOR END OF MONTH: DECEMBER 1992**

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

**DESCRIPTION:**

Provide additional DST capacity. Construction complete.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

MILESTONE	DESCRIPTION	BASELINE	PROJECTED
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93
M-31-03	Initiate definitive design of new Multifunction Waste Tank Facility.	01/31/92	01/31/92

**ACCOMPLISHMENTS**

- Draft change request M-31-92-02, which outlines proposed future milestones for M-31-00, is being reviewed by Ecology. Negotiations to finalize the milestones for the Multi-Function Waste Tank Storage Facility will begin in January.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Resolve the issues associated with the Ecology denial of the M-31-92-03 change request.
- Begin definitive design of the new Multifunction Waste Tank Facility.

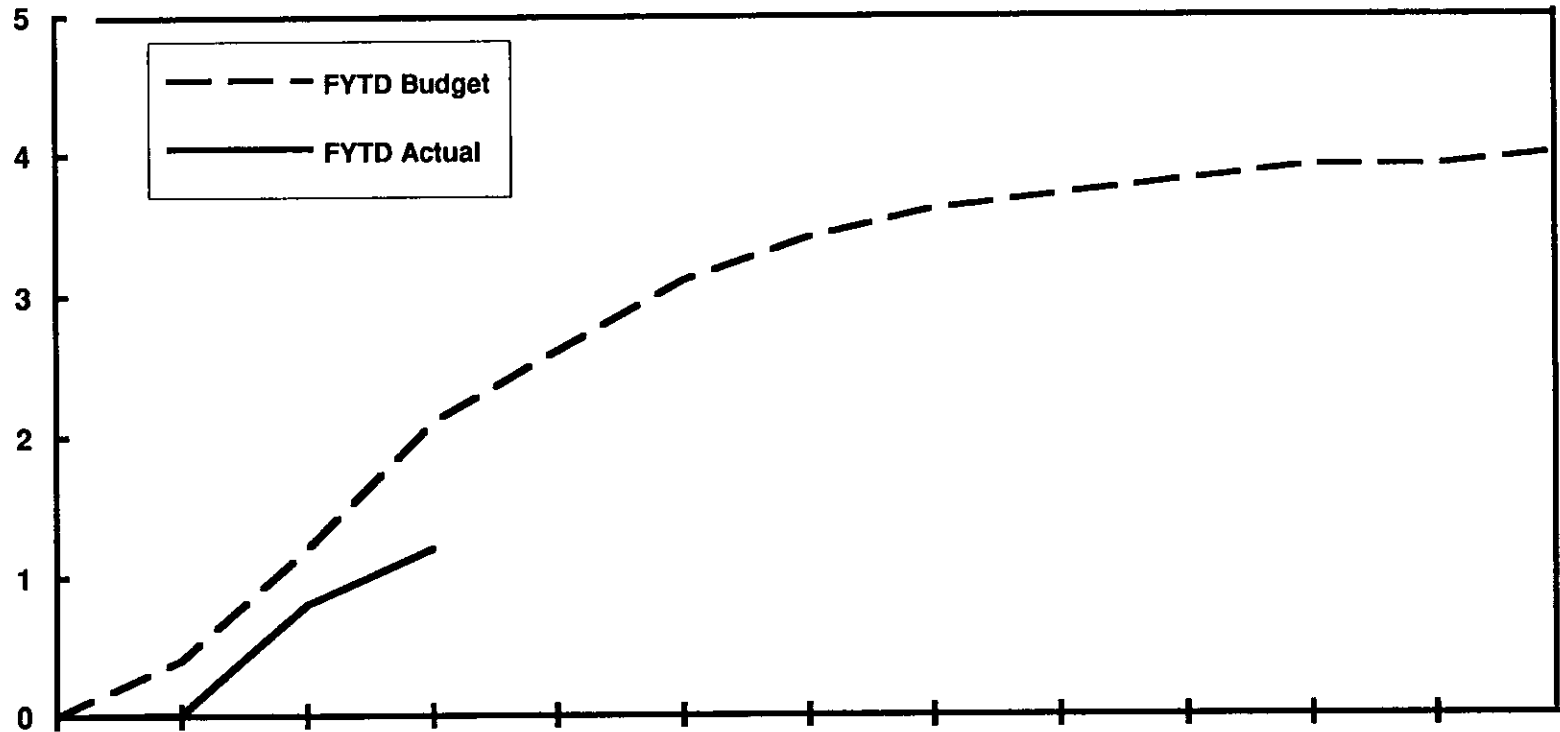
**MILESTONE STATUS/PROBLEMS/ISSUES**

- A change request has been developed to allow the deferral of the evaluation of additional DST capacity needs (M-31-02) until after the completion of the TWRS rebaselining effort. The change request was denied based on the timeliness of the request. RL has entered dispute resolution to resolve this interim milestone issue. Informal negotiations to resolve the dispute are scheduled to begin in January.

**MILESTONE M-31-00**

FY 1993

\$ Millions



	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
FYTD Budget	0.4	1.2	2.1	2.6	3.1	3.4	3.6	3.7	3.8	3.9	3.9	4.0
FYTD Actual	0.0	0.8	1.2									
Spending Var	0.4	0.4	0.9									

Variance Explanation: Resources were not applied to preliminary drawings and technical analysis as planned due to underestimating the effort required to complete the Functional Analysis (FA) design recommendation. Resources will be transferred to FA via change control. KEH has not received billings for consultant services. Under run has also occurred due to delays in hiring staff and in taking occupancy of the project office area. Underruns will continue until activity completion, billing, and moving expenses are incurred during normal project execution.

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